Dear CSE Students:

Welcome to the seventh newsletter of the spring 2013 semester.

**News from the Undergraduate Program:** Good luck on your final exams! If you need to get on a waiting list for Summer or Fall 2013, please see Yvette Blanchard in ENB 342, Monday – Friday, 8am – 5pm.

**News from the Graduate Program:** Congratulations to all of you who are graduating this semester. Job well done! If you will be defending and graduating in Summer or Fall 2013, please review the College of Engineering Thesis/Dissertation Format Guide. The guide is available on the College website under Student Services/Graduation [http://www2.eng.usf.edu/studentServices/graduation.htm](http://www2.eng.usf.edu/studentServices/graduation.htm) or you can pick up a hard-copy in Catherine Burton’s office. Other important deadlines: **Candidacy:** For those of you who have passed the Ph.D. Qualifying Exam, the deadline to turn in your paperwork is April 28, 2013. You must turn in the Application to Candidacy, the Ph.D. Plan of Work and your Ph.D. Committee Form with all signatures. This will allow you to register for Dissertation Hours for the Summer term once approved by the Graduate School. **Summer Graduation:** For those of you planning to graduate this Summer, you must turn in your Application for Graduation AND the Graduation Checklist by Friday, May 4, 2013.

Attached are announcements for the following (please note that this listing does not imply University or Department endorsement in any way):

- Florida International University ASSET REU
- Student Assistant positions for LEGO Mindstorms Robotics Camps
- Tata Consultancy Services seeking graduating seniors interested in Software Development
- Tata Consultancy Services Software Engineer position descriptions
- Samsung Seattle Lab hiring interns for full-time positions
- Serve Enterprises seeking Quality Assurance Engineer
- Ferreri Search looking to fill multiple Engineering positions now
- Citi hiring for Production Control position
- Revel Systems recruiting Technical Support members
- Part-time SEO intern position

Regards,

Ken Christensen
Director of the Undergraduate Program (and Newsletter Editor)
Email: christen@csee.usf.edu

The archive of old newsletters can be found at [http://www.csee.usf.edu/newsletter](http://www.csee.usf.edu/newsletter)
The Summer 2013 offering of Florida International University Research Experience for Undergraduates in Advanced Secured Sensor Enabling Technologies spans ten weeks (May 13 to July 29) and offers research and professional development opportunities for 10 undergraduate students. Available research projects share the theme of advanced secured sensor enabling technologies and span several exciting areas such as Trajectory Privacy Preservation in
- Mobile Sensor Networks,
- Privacy & Secure Social Sensor Networks,
- On-chip Switch Architecture & Algorithms for MIMO Sensors,
- A Software Library for Visualizing Large Scale Sensor Network Applications,
- Trajectory Sensor Stream Cleaning,
- Resource Management for Security & Surveillance over a Sensor Network
- Self-configuring, non-cooperative Mobile Sensors.

Details about REU-ASSET including an online application, can be found at

http://it2.fiu.edu/it2_REU.php.

The program is OPEN until filled.
SUMMER CAMP STUDENT ASSISTANTS NEEDED

Visit http://fl-ate.org/projects/camps.html for camp dates and details. Interested candidates should email a letter of recommendation, a cover letter, and a resume to:

Desh Bagley at bagley@fl-ate.org

SUMMER CAMP 2013

• Each paid position requires a 4-week commitment during the summer of 2013.
• Camp takes place on the Brandon Campus of Hillsborough Community College. 10414 Columbus Drive; Tampa, 33619
• Camp is Monday – Friday.
• Working hours are 7:45am – 4:15pm
• Rate: $10 per hour

IDEAL CANDIDATES ARE:

• Engineering / Computer Science Majors
• Familiar with LEGO NXT Mindstorms, CAD Software, Arduino Uno Microprocessors, and NAO Robots
• Knowledgeable about manufacturing companies in FL
• Able to interact comfortably with kids and camp staff
• Enthusiastic and hard working
• Creative problem-solvers and initiators

This material is based upon work supported by the National Science Foundation, under the following grant: DUE:1204751. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.
Tata Consultancy Services seeks Graduating Seniors interested in Software Development

Join us for TCS Smart Start

Location:
Seven Hills Park TCS Office
1000 Summit Drive
Milford, OH 45150

Attendees will:
- Take part in a TCS Information Session
- Interview with HR and technical representatives
- Hear from recent college hires
- Enjoy lunch and casual networking

What works for you?
Choose your date:
Friday, March 22, 2013 | Saturday, April 6, 2013
Friday, April 19, 2013 | Saturday, April 27, 2013

All sessions will be held from:
10:00 AM – 2:00 PM

RSVP to Michaela.Barbour@tcs.com no later than one week prior.

Selected candidates will leave the TCS office with a verbal job offer.
Who We Are

Tata Consultancy Services is an IT services, consulting, and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. As a campus hire at TCS, you will have the opportunity to work for a global company at the forefront of a rapidly expanding field. TCS continues to grow faster than the industry average, ensuring that throughout your career, you’ll have constantly expanding opportunities for personal and professional growth. You’ll also find an environment that allows you to explore and map out a dynamic career path tailored to your personal goals as well as a supportive community of colleagues working together to positively impact our company, our clients, and our careers.

Why Join TCS

By becoming a TCS employee, you can be certain that you are joining a world-class team of over 200,000 of the world’s best-trained IT consultants in forty-two countries worldwide. Generating more than $8 billion for the fiscal year ending March 31, 2011, TCS consultants maintained a 99% retention rate among more than one thousand clients, including:

- 49 of the top 100 Fortune 500 US companies
- 7 of the top 10 Fortune 500 US companies
- 6 of the top 10 Fortune Global 500 companies

In addition, TCS offers exclusive opportunities to train in our advanced facilities, working with diverse and cutting-edge technologies, while gaining both domestic and international experience and exploring multiple career paths.

Join TCS and experience certainty in your career.

“Think about what you want to contribute, and think about what you would like given back to you for those efforts. With a footprint so wide, TCS can fit those requirements even as your skills and ambitions continue to grow.”

Stephen
Ohio State University, Class of 2009

“When I was interviewed, I had asked for an SAP project and TCS agreed to provide me with one along with training at one of their facilities in India. TCS helped me realize my dream of being on an SAP project and getting international exposure at the same time. All I can say is I am living my dream.”

Seshasai
New Jersey Institute of Technology, Class of 2011
Software Engineer

Joining the TCS team offers you an exclusive opportunity to start your career and master your software development skills by training in our advanced facilities at our Cincinnati Domestic Delivery Center (CDDC) in Milford, Ohio for 6 weeks.

The Initial Learning Program (ILP) is a fully-paid training program that includes a TCS orientation, Product Development Life Cycle training, Case Study Implementation and Project Integration courses, inter-cultural effectiveness workshops, and additional technical training specific to the needs of our client partners.

After completing the training program, Software Engineers join their onsite teams to work on pre-selected assignments with clients who offer a variety of medium- or large-sized projects. With clients located across the US and globe, TCS can offer great flexibility in relocation, excellent career advancement, and a variety of opportunities. TCS’ mentoring, career development, and on-the-job training ensure a smooth transition into your professional life and orient you to our culture, values, vision, and mission.

Responsibilities

- Develop, create, and modify general computer application software or specialized programs
- Analyze user needs and develop software solutions
- Design or customize software for client use to optimize operational efficiency
- Improve existing systems by analyzing areas of modification
- Analyze and design databases with application areas
- Coordinate database development with a team or individually
- Maintain systems by monitoring, identifying, and correcting software defects
- Create technical specifications and test plans
- Update knowledge and skills regularly through in-house and external courses, manuals, and new applications

Requirements

- B.S. in Computer Science (CS), Information Technology (IT), Information Systems (IS), Business Information Systems (BIS), Electrical Engineering (EE), Computer Engineering (CE), or Management Information System (MIS)
- Cumulative or major GPA of 3.0 or higher
- Knowledge of basic computer science concepts, programming, and Information Systems
- Interest and willingness to travel and relocate
- Previous experience in Java/J2EE Development, C++/C#, .NET, VB/ASP Development is preferred

Qualifications

- Outstanding attention to detail and capacity to demonstrate continual learning
- Exceptional analytical and problem solving capabilities
- Excellent deductive and inductive reasoning skills
- Strong interpersonal verbal and written skills
- Ability to work both individually and with teams

Compensation and Benefits

- Competitive Salary
- Comprehensive Health Benefits
- Relocation Assistance
- 401(k) Plan with Company Match

To apply go to: www.tcs.com/careers

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India’s largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at www.tcs.com
Samsung Seattle Lab hiring full-time positions

From: Andrew Mast <andrewdmast@gmail.com>
Date: March 27, 2013, 2:23:11 PM EDT
Subject: Re: Samsung is looking for Interns This Summer!

I just wanted to inform you that in addition to internships, Samsung Seattle lab (Android lab) is now also aggressively hiring for full time positions. If you could pass this fact on to your students in your mobile classes it would be greatly appreciated.

General Description

http://www.linkedin.com/jobs?viewJob=&jobId=5144856

Note: Students applying for junior positions do not need to fulfill the requirements in the LinkedIn description. This is for more experienced candidates.

General Requirements for entry position:
1. Proven interest in mobile technology.
2. Solid CS, CE, or EE background.
3. Capable of independent learning.

Applicants can send me their resume to get it reviewed directly by someone in our lab.

Thank You,

Andrew Mast
Software Engineer
Samsung Telecommunications America
Quality Assurance Engineer – Job Description

Job Description
Serve Enterprises is a wholly-owned subsidiary of American Express. Serve Enterprise provides cutting-edge technological services in alternative payments in an innovative payment processing platform, payment card network, and new consumer payment solutions to the Enterprise Growth division of American Express. This position offers the unique opportunity to work for a cutting edge start-up while leveraging the resources and foundation of a prestigious, globally recognized 160-year old brand.

Serve is looking for an experience Quality Assurance Engineer with good automation and manual testing experience. This position will exercise new, enhanced and remediated features and functions to ensure the assigned software applications meet the quality guidelines and compliance standards.

As a QA Engineer you will be responsible for developing and executing formal test suites to ensure delivery of quality software applications. Performs detailed review of test suites and develops manual and automated test cases and test configurations needed to meet testing of business requirements. Executes test cases/scripts and tracks and monitors defect resolution activity.

Job Responsibilities
• Collaborates with the business and System Analysts during requirements development to ensure the needs are testable.
• Performs complex functional, application, regression and performance tests.
• Create Test strategies and plans.
• Write and modify; manual and automated test scripts.
• Map business and technical requirements into test suites, test cases and test scripts.
• Identify, document and assist in resolution of all defects related to test suite execution.
• Validate new software in the production environment.
• Support post-deployment efforts to align with "warrantee" period.
• Identify future product enhancement opportunities.
• Assist Quality Assurance Lead/Manager on the implementation of the new application changes.

Required skills and knowledge:
• Strong analytical and problem solving skills
• In-depth attention to detail
• Excellent written and verbal communications
• Knowledge of Automation tools
• Knowledge of Defect management tools
• Collaborative attitude with the ability to quickly adapt to changes
• Capacity to handle multiple tasks
• Ability to work independently and the knowledge as to when to seek guidance
• Ability to quickly learn new software and technology
• Self-motivated
• Database experience
• Knowledge of writing sql queries

Education Requirement/Experience:
• Bachelor’s degree with 5 years’ testing experience or Bachelor’s degree in a Technical/Computer Science with 2 years’ testing experience or Master degree in Computer Science.
Ferreri Search seeking to fill multiple engineering positions

Please send your resume and cover letter to Jason Basye at jason@ferrerisearch.com or Mike Korman at michael@ferrerisearch.com.

**Position(s):** Implementation Engineer/Client Services Administrator  
**Location:** Tampa, FL  
**Hiring Option:** Direct Hire  
**Salary Range:** $50,000/year (Depending on experience)

We are looking for someone to join one of our client’s internal help desk team that supports all their internal employees. This person will be joining a team of 3 (Client Service Administrators) in Tampa and they 1 in Phoenix. My client believes in empowering his staff to make their own decisions but is still available for escalations or questions they may have. Client needs someone self-sufficient, who is functionally smart, a good communicator, and is assertive enough to make suggestions on how to improve processes.

**Job Responsibilities:**

- Respond to requests for technical assistance from internal employees via e-mail, phone, in-person, or remote support within SLAs established within IT Services department.
- Install, configure, and troubleshoot desktop, laptops, servers, phones, printers, software, hardware and network issues.
- Troubleshoot, diagnose, and resolve Microsoft desktop operating system and applications issues.
- Perform PC maintenance (malware/virus scans and removal) as well as minor hardware repair for equipment not covered by third-party vendor maintenance agreements.
- Create and maintain technical documentation including standard operating procedures, user guides, knowledge base articles, and system configurations.
- Track technology equipment allocations and monitor computer hardware and software inventories.

**Trouble Tickets:**

- Come through over the web in SharePoint 2010 and the volume is fairly low.
- They will need to be very resourceful as a lot of the issues won't be in a manual.
- Example of a ticket would be a MS Outlook calendar issue. They will handle primarily level II ticket items.

**Technically:**

- Needs someone with heavy Active Directory experience (Functionally smart) who is big on best practices, policies and procedures. Need to know the administration tools and remote support applications.
- Need to understand Group Policy (probably from an enterprise environment) and can troubleshoot issues in Group Policy.
• Heavy experience in Windows 7 or XP.
• Probably will need experience with technical documentation (writing user guides, install manuals, etc...)
• It would be helpful if they have handled troubleshooting on mobile devices or handhelds.
• Big plus would be exposure to virtualized desktop (Prefers VMware but Citrix/XenApp would work).
• They need to understand infrastructure from an overview or architecture standpoint (How virtualization ties in and so on)
• General understanding of TCP/IP and LAN/WAN technologies, including Ethernet, wireless networking, and remote connectivity.

Additional Information:

• They will need to provide high level customer service
• Need to be able to prioritize work schedule/strong time management
• They need to know their limitations and be able to work on their own technical/professional improvements (Know when to escalate and when to be resourceful and figure out the solution on their own)

Position(s): Java Software Engineers (Junior, Mid, and Senior level)
Location: Tampa, FL
Hiring Option: Direct Hire and Contract
Work Status: US Citizen, Green Card Holder, or EAD only
Salary Range: Open (Depending on experience)

Job Responsibilities:

• Builds Java programs, batch jobs, and related SQL stored procedures that are consistent with the objective of stated development and business goals.
• Maintains up to date understanding of SQL, Java technology and full life cycle development methodologies.
• Creates test cases for ensuring programs meet stated business objectives. Performs testing on programs before moving into a production environment.
• Works continually on improving performance of queries and source code performance using industry standard methodologies for SQL generation, data analysis and algorithm organization. Provides support for investigating and debugging production issues.
• Ensures projects are completed in a timely manner, consistently achieving project deadlines.

Required experience:

• 1-2 years core Java (JSEE 1.4 or later)
• Basic understanding of SQL (selects, inserts, joins)
• Basic understanding of code management concepts (check-in, check-out, merging)

Preferred Experience:
• Google Web Toolkit
• Subversion code management
• MS SQL Server
• Eclipse IDE
• Windows 7 operating environment
• MS Office suite experience, particularly MS Word

Position(s): Associate BI and BI Analyst
Location: Tampa, FL
Hiring Option: Direct Hire
Work Status: US Citizen, Green Card Holder, or EAD only
Salary Range: $60,000 - $80,000/year (Depending on experience)

As a member of the Data Governance Program team, the Associate Business Intelligence Analyst and Business Intelligence Analyst will be responsible for the development and maintenance of documentation supporting the Data Governance program.

Job Responsibilities:

• Works with the BI and Analytics team to develop and publish data definitions, data lineage, and standards for analyzing and reporting on data to the organization.
• Writes and executes SQL queries to profile and analyze data elements in support of the data governance program.
• Works with cross functional teams to manage data dictionaries and content in documentation of data systems.
• Collects information to analyze and evaluate existing or proposed data systems as needed.
• Develops documentation and presentation materials to be presented to the Data Governance Committee for review.
• Documents and manages all policies, procedures and standards approved by the Data Governance Committee.
• Works with Business Intelligence Analyst to develop requirements documentation associated with the Data Warehouse and BI Reporting environments.
• Works with Business Intelligence Analyst to prepare detailed flow charts and diagrams outlining systems, data flows and processes.
• May be required to collaborate with business partners and technical team members to assure evaluations of data and processes are accurately and effectively documented.

Qualifications/Education/Certifications:

• 4+ years related experience
Knowledge, Skills and Abilities:

- Must have experience developing technical documentation
- Must have experience writing SQL Queries using SQL Server 2008 or later
- Preferred experience w/ Java programming and development
- Must have a strong understanding of technical documentation concepts and practices
- Must have experience with, and strong knowledge of, MS Word and Excel
- Knowledge of Visio strongly preferred, but not required
- Knowledge of SharePoint preferred, but not required
- Knowledge of SQL Spec preferred, but not required
- Preferred experience documenting solutions developed using a SDLC Methodology
- Must have proven ability to analyze & evaluate data
- Ability to achieve positive, successful results in a fast paced and changing environment.
- Knowledge of MicroStrategy

Position(s): Production/Software Support Engineer
Location: Tampa, FL
Hiring Option: Direct Hire and Contract
Salary Range: $60,000 - $75,000/year (Depending on experience)

Ferreri Search is working with an established software company in Tampa on a full-time Software Support Engineer opportunity. This position will be joining a dynamic team and the position is open due to company growth. The qualified Software Support Engineer will need to have a desire be challenged daily, a focus on client service, and the ability to grasp multiple programming languages to effectively facilitate this role.

Objective:

- Telephone and email support of company's proprietary products, and testing software tools and applications.

Required Experience:

- Work experience with Java (Previous development experience is desired) – Ability to triage, troubleshoot, and break fix code
- Work experience coding in .NET, JAVA, VB, C, C++, Delphi or other development environments.
- Work experience with MS SQL Server (Running queries, stored procedures, inserts, joins, etc.)
- Apache Tomcat (Installs, configurations, monitoring, early detection/prevention of problems)
- Collaboration with other IT groups (Application Development, DBA's, Infrastructure, etc.)
- Exposure to solving support problems for the customers in a fast paced environment
- Leadership (Point person to ensure outages are resolved)
Citi – Production Control position

If interested, contact Prakash Chaplot at prakash.chaplot@citi.com

Job Description:

Brief Description of the Organization:
The Chief Technology Office (CTO) is responsible for Citi’s overall Information Technology strategy. CTO’s mission is to optimize Citi’s IT environment by driving standardization of the production environment, management of systems supporting global functions such as Compliance, Enterprise Risk Management and Finance. They introduce innovative technologies that provide new business capabilities, reducing the technology total cost of ownership, to create a competitive advantage for the firm.

Global Production Assurance (GPA) Change Release and Deployment Management is a shared service organization responsible for providing Change and Deployment support to CTO Applications; coordinating, tracking and/or implementing change activity for major / minor releases and infrastructure modifications.

Production Control – App Support - Sr Administration Analyst:
- Execute the process that coordinates and implements changes/releases across all CTO applications controlled (UAT/QA, COB and/or Production) environments. Install changes to controlled information system environments.
- Ensure CITM Policy/Standard and CTO Procedure adherence, recognizing the importance of required controls to minimize introducing risks associated with Production activity.
- Oversee the assessments of priority and impact of changes and activity to controlled regions, for accuracy.
- Communicate with external departments such as Development, Database, Security, System Administrators and Operations teams. Apply recommendations of appropriate actions, from the manager.
- Participate in activities related to implementing CATE recommended standards and tools in support of any associated Production Assurance (PA) or Software Engineering Process Group (SEPG) initiatives.
- Provide Subject Matter Expert support for day to day activities of team members, training as necessary.
- Utilize good understanding of apps support procedures and basic knowledge of technical areas to identify problems, recommend and implement solutions.
- Formulate and define scope and objectives for moderately complex changes through research and fact-finding, combined with an understanding of applicable system and industry standards; document requirements.
- Ensure proper handoff and communication of all work activities to the appropriate team lead.
- Exchange ideas and information in a concise, logical manner.

Required Skills:
- Good working knowledge of Microsoft Office (Excel, Access, Word, PowerPoint)
- Ability to work on multiple tasks simultaneously in high-pressure environment and frequently reprioritize.
- Strong analytical and problem solving skills
- Exposure to any Change or Deployment processes or tools is a plus. (Ex: SubVN, PVCS, TFS, Dimensions, STAT)
- Minimum of 1 year technical experience with IT infrastructure, Development, and/or Operations is a plus.

Required Competencies:
- Strong oral, written, interpersonal and organizational skills
- Ability to work with minimal supervision.
- Experience being a main interface with external departments such as Development, Database, Security and System Administrators, and must have the ability to perform well under pressure.
- Information Technology Infrastructure Library (ITIL) Foundation exposure or certification, is preferred.

Education Level: Bachelor’s Degree or equivalent experience.
Primary Location: NAM-USA-FL-Tampa
Schedule: Full-time – Sunday to Thursday or Tuesday to Saturday
Shift: 8AM -5PM; or 11AM - 8PM; or 11:30PM – 8:30AM Eastern Time.
Employee Status: Regular
Travel: No
Relocation: No
Office Location / Address: 3800 Citibank Center, Tampa, Florida
Technical Support

Revel Systems is recruiting Technical Support members to help us change the way people do business. We have created revolutionary software and paired it with the iPad to cause a massive paradigm shift in the Point-of-Sale industry. We won “Best Business App” at Macworld and “Most Innovative POS” at RSPA. We’re kind of a big deal.

A Couple Requirements:

• College degree
• Strong understanding of TCP/IP server applications
• Restaurant industry experience a plus
• Extraordinary customer service skills with the ability to go beyond the client’s expectations
• Ability to quickly learn new software and application on mobile devices
• Desire to work in a dynamic, fast-paced environment
• Positive, self-motivated, and enthusiastic
• Excellent verbal and written communication skills
• Adept at translating complex concepts into easy-to-understand terms
• Exceptional problem solving ability

Your Responsibilities:

• Answering support calls from existing customers
• Diagnosing and troubleshooting technical product problems
• Respond to customer’s networking software issues
• Resolve client issues in a positive and effective manner
• Maintain and update our ticketing system
• Educate and conduct 1 on 1 training with clients as requested
• Support to QA process fro new and ongoing product development
• Review and update product documentation
Part-time SEO Intern

SEO Intern Wanted! Part-time hours, 8-10 per week, $10/hr, for a local family owned restoration company. SEO, Keyword Optimization, Social networking experience needed. Please email resume to info@nextgenrestoration.com, Atten: David Sweet. Mention you are replying to ad from USF.

www.nextgenrestoration.com 813-962-6855