Dear CSE Students:

Welcome to the fourth newsletter of summer 2014.

**Undergraduate Program (CS and CpE):** I hope you are having a great summer. Fall semester begins on August 25.

**Undergraduate Program (IT):** “The early bird gets the worm.” Register early for your Information Technology classes. They are filling fast.

**Graduate Program:** Upcoming important deadlines: Admission to Candidacy is July 25; Application for Graduation for Fall is August 1; Sign-up for Fall Qualifiers is August 29. Please see the CSE Graduate Calendar for other deadlines.

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

- University Area Community Development Center seeking computer lab volunteers
- Computer Mentors Group seeking computer trainer/instructor
- MindSumo challenges
- Matrix Research positions
- SageWorks software developer
- Java Engineer Positions at an NYC Startup
- Raisecom Network Engineer I – Intern
- SAMHSA Internship Program
- Opportunities from a local recruiter

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.cse.usf.edu/newsletter
The University Area Community Development Center is now looking for volunteers for the computer lab for the fall semester. We are currently looking for volunteers who can teach basic computer skills. This is your opportunity to affect the lives of the people who live in the University Area by empowering them with the skills they need in a competitive workforce!

**Position Duties/Requirements:**

- Teach computer basics to members of the community
- Complement existing curriculum or develop improved curriculum
- Engage and involve students in learning
- Must have a basic knowledge of computer and word processing programs such as word, excel, and PowerPoint
- Must have a patient and welcoming attitude

This is a great volunteer position to get experience in teaching, share your knowledge of computer basics with others, and build your resume. If you are interested in this position, send all inquiries to imcdermott@uacdc.org with the following filled out:

- **Name:** ____________________________________________________________
- **Email:** ___________________________________________________________
- **Phone number:** __________________________________________________
- **Availability:**
  - **Monday:** _______________________________________________________
  - **Tuesday:** _______________________________________________________
  - **Wednesday:** ___________________________________________________
  - **Thursday:** _____________________________________________________
  - **Friday:** _________________________________________________________
  - **Saturday:** _____________________________________________________
Computer Trainer/Instructor Job Description
The purpose of this position is to assist individuals to learn certain computer applications and methods by using a specific prepared curriculum. The ages of the participants may range anywhere from children to adults with the emphasis being mostly to teach children computer programming using unique methods.

Computer Trainer/Instructor Duties
- Conduct formal training sessions using specified curriculum
- Record attendance
- Maintain database of student achievement and milestones
- Provide feedback on curriculum
- Conduct student assessments perform student evaluation

Qualifications
- Must have programming capability. Capability should include but is not limited to Javascript
- Capability of learning new computer languages including Scratch, a free 3D programming language which can be used to create interactive stories, games, and animations (see http://scratch.mit.edu)
- Capability of quickly learning Microsoft productivity tools including Office 2013 and Office 365
- Must love to teach and a background in Education and/or STEM related fields are a definite plus
- Must love children and seniors

Work Hours & Location
Hours and location vary and are flexible depending on assignment. Transportation is important as most training is conducted on site at local schools and non-profit organizations. Assignments are available both during the day and in the evening.

Compensation
Compensation is hourly ranging from $15 per hour to as high as $30 per hour depending on assignment and contract. Compensation will also include paid preparation time.

Other Comments
Position is perfect for college students or retirees. Training will be provided.

To Apply
Send resume via email to Ralph Smith (RSmith@computermentors.org) by July 25, 2014
Dear Students,

Please take a look at the MindSumo challenges linked below. MindSumo challenges are a great opportunity to get work experience by applying the skills you're learning in classes, win cash prizes, and prove yourself to potential employers. All you need to do to participate is sign up for MindSumo using the button in the top right on any page. To learn more, watch their 45 second video.

**Pearson Challenge:** Propose an app to help college students keep their math skills sharp, $1000 in prizes

**KiLife Tech Challenge:** Develop cutting edge, wearable devices for children, $1000 in prizes

Any questions can be directed to aaron@mindsumo.com

Direct Links:
https://www.mindsumo.com
https://www.mindsumo.com/contests/help-college-students-keep-their-math-skills-sharp
http://youtu.be/sQ1ssyXoL_E
Matrix Research is an employee-owned, small business specializing in radar systems and radio frequency technologies. Our programs span basic research through low-rate production of advanced sensing systems, subsystems, and components. Nearly half of our technical staff hold a Ph.D. in Engineering, Mathematics, or the Physical Sciences.

Headquartered in Dayton, OH, Matrix Research is looking to expand with the opening of an office in the Eglin AFB area. Matrix Research is seeking candidates for our growing business in Florida with skillsets in the following areas:

- **Signal/Image Processing**: Apply foundational theory (e.g., detection & estimation, optimization, inverse problems, machine learning) to EO and RF sensor exploitation for defense applications (e.g., STAP, SAR, ATR, tracking, navigation).

- **Digital Systems**: Design, develop, and produce complete digital signal processing systems comprised of FPGAs, DSPs, and/or GPUs.

**EDUCATION & QUALIFICATIONS**: Ph.D. preferred or Masters in related field with 5+ years applicable experience. Must be a U.S. citizen capable of obtaining and maintaining a Top Secret security clearance.


Matrix is an Equal Opportunity Employer.
Company Overview:
Sageworks is the leader in the financial analysis of privately held companies (www.sageworks.com). Located in Raleigh, North Carolina, our mission is to turn complex financial data into actionable intelligence that empowers people to make better financial decisions. Our patented, web-based technology rapidly analyzes financial information and uses artificial intelligence to aggregate and interpret financial data on privately-held companies. Thousands of accounting firms and financial institutions use Sageworks’ software and financial data in their operations. We have been recognized by Inc. Magazine and Deloitte as one of the fastest-growing technology companies in the U.S. Sageworks has a deliberately unique environment and culture that is casual but extremely results-oriented. We hire assertive, directed individuals who are goal-oriented and are committed to our vision of changing how financial information is used by business people.

Position Overview:
We are seeking a highly motivated and skilled software developer to help us leverage and build upon our core expert system and suites of financial analysis products. The position will require software development work in a fast-paced, intense environment at a rapidly growing company. The expectation for this individual is to not only execute but innovate at a high level. Ideal candidates are developers who "live to code and code to live"; they must be passionate about software development. We believe in challenging our developers with large-scale, intellectually stimulating work and rewarding them with very competitive compensation packages.

Responsibilities:
- Build, enhance, and maintain world-class web applications
- Conduct focus groups, develop product specifications, build prototypes, and write test plans
- Perform QA and bug fixing work during the training phase

Qualifications:
- Bachelor’s Degree in Computer Science or related field
- Experience in web application development and Object-Oriented Design and Programming is required
- Experience with the following web technologies is preferred: ASP.NET, C#, SQL, VBA, Javascript, HTML, CSS, XML
- Experience in delivering commercial strength software products used by thousands of users
- Excellent communication skills
- Strong attention to detail

Compensation:
The role offers a base salary along with full health benefits and a 401(k) plan.

To Apply:
Applicants should submit their resume to Kelsey Zavelo at kelsey.zavelo@sageworks.com
Java Engineer Positions at an NYC Startup

LearnVest is looking for backend Java engineers to build version two of the engine that runs our web applications and internal services. We are a growth stage startup located in the heart of the New York City technology scene. A brief description of requirements is included below. You can find a more detailed description and application instructions at the provided links.

**Junior Java Engineer:** [http://jobvite.com/m?3HhrzgwJ](http://jobvite.com/m?3HhrzgwJ)
- BS in Computer Science (or experience)
- Strong Java programming skills (1-3 years experience, preferred)
- Strong analytic skills, creative, and detail-oriented

**Software Engineer:** [http://jobvite.com/m?3hgrzgwI](http://jobvite.com/m?3hgrzgwI)
- 2+ years Java programming experience
- Experience with building RESTful APIs with JSON as inputs and outputs
- Database modeling experience (MySQL is a plus)

Feel free to email ajones@learnvest.com with any questions you may have about the company and/or positions.
Position: Network Engineer I - Intern

This position is a 6 month internship-to-hire in the USA Tampa office. The intern is expected to fill a full-time position upon the completion of the internship. Extension of this offer is contingent on overall performance and assessment at the 90-day and 180-day mark. If performance is more than satisfactory, the full-time position may be offered early, after the 90-day assessment.

Location: Tampa, Florida Office - USA Network Lab

The Opportunity:

• Troubleshoot and test telecommunication equipment with a team of experts
• Learn about different applications & designs of networks through our education program and from international networks in South & North America
• Build knowledge on different network platforms and diverse carrier solutions
• Interact and work with diverse group of experts from China, South America, and North America to develop our products
• Provide technical support for our telecommunication equipments in the US and LATAM market
• Master telecommunication configuration and network design regarding our equipment
• Option to travel domestically and internationally to assist with test trials and homologation of Raisecom devices into carrier networks
• Participate in network architecture design meetings
• Directly interact with R&D
• Mount downscaled carrier topologies in the lab
• Unmatched exposure to every networking technology:
  ◦ Carrier Ethernet, MPLS-TP/IP, TDM, CWDM, DWDM, MEN, & SONET/SDH

Company Profile: Telecommunication Equipment and Technology Developer.

Founded in 1999, Raisecom Technology has established its reputation as a top global equipment provider of Ethernet-over-AnyNet and optical/copper access solutions, delivering quality, innovation and customer responsiveness by investing well over half of the company's resources into engineering, research/development and professional services. The company has achieved 50% revenue growth every year since its inception,
and, has been recognized by Deloitte Touche Tohmatsu as one of the 500 Fastest Growth Technology Companies in the Asia Pacific market for four years in a row.

Company Culture:

Raisecom is an international company and constitutes a multicultural office. We have daily interaction with clients from the United States as well as Latin and South America, and work closely the China team that constitutes R&D. Dress code is casual, unless customer contact is expected.

Requirements:

- Has or is pursuing an Engineering or Information Technology degree (preferably a senior students about to graduate).
- Critical thinking skills: Ability to apply knowledge to analyze and troubleshoot issues
- Strong written and oral communication abilities (e.g. writing detailed documents, animating PowerPoint presentation, producing demo videos, and presenting technical sessions to large audiences).
- ability to perform Customer Support
- Prior networking experience and knowledge is not mandatory, however must have familiarity with technology and ability to learn and digest in-depth technical concepts quickly

Additional Preferences (Not Required for Application):

- English speaking, bilingual in Mandarin or Spanish
- Web development background
- Marketing skills - experience designing newsletters and promotional materials or performing market research and analysis
- Networking experience
Put your **IT** education to work in the SAMHSA Internship Program

A paid internship with SAMHSA is a solid return on your education investment.

The Substance Abuse and Mental Health Administration (SAMHSA) is dedicated to building a diverse workforce that will lead the nation in implementing state-of-the-art technology that improves the delivery of health care services. The SAMHSA Internship Program is part of the agency's efforts to attract the best and brightest and is open to highly qualified college and university students with interest and experience in the following areas:

- Information technology
- Computer science
- Business administration
- Business communications
- Public health
- Public policy
- Behavioral and social sciences

The SAMHSA Internship Program is targeted to students who are women, disabled, veterans, or Asian and Pacific Islanders as well as those in Hispanic Colleges and Universities, Historic Black Colleges, Tribal Colleges and Universities, and recovery institutions.

The 15-week SAMHSA Internship Program will introduce you to the computer systems, software applications, and networks that support electronic medical records, telemedicine, and other health IT initiatives. And it will help boost your career and give you a competitive advantage. As a SAMHSA Intern, you will work 40-hours a week on meaningful projects, gaining real-life experience in areas aligned with your course of study. You also will learn about the multiple leadership opportunities that exist within SAMHSA and where, as a part of the SAMHSA workforce, your knowledge and skills would have the greatest impact.

**Apply Today**

**Program Details**

**Location:** SAMHSA, the agency in the Department of Health and Human Services dedicated to the prevention and treatment of substance abuse and mental illness, is located in Rockville, MD, a Washington, DC suburb.

**Internship Dates:** September 8 – December 19, 2014

**Eligibility:** To be eligible for the internship, applicants must:

- Have proof of U.S. citizenship or a permanent resident registration card (I-151 or I-551). Individuals on temporary visas are not eligible
- Be enrolled in an accredited academic institution or a recent graduate (within one year) of a Bachelors or Graduate degree. Veterans, unable to apply within two years of receiving their degree due to military service obligation, have as much as six years after degree completion to apply.
- Have a minimum 3.0 GPA on a 4.0 scale

**Graduate Student Stipend:** $480 a week, paid bi-weekly

**Undergraduate Student Stipend:** $380 a week, paid bi-weekly

**Housing and Travel:** Non-local interns will be placed in shared housing. SAMHSA will reimburse non-local interns who find and pay for their own housing up to $600 per month. SAMHSA will handle travel arrangements and pay for roundtrip fares and baggage fees for non-local interns traveling from their home to their temporary housing by plane, bus, or train.

**Application Deadline:** August 4, 2014

For more information and to apply, please visit [http://beta.samhsa.gov/about-us/jobs-internships/internships](http://beta.samhsa.gov/about-us/jobs-internships/internships)

Regards,

**Carl-Henry J. Fortune, MPH, MBA, MHA**
Program Director
SAMHSA Internship Program
**DB Consulting Group, Inc. (SAMHSA Contractor)**
8401 Colesville Road 3rd Floor
Silver Spring, MD 20910
(301) 589-4020 ext. 4151
Opportunities from a local recruiter

Serve/American Express (www.serve.com)
- Serve Virtual Enterprises is a wholly owned subsidiary of American Express. Their core product is the Serve card, a pre-paid reloadable card sold in major convenience stores nationally and internationally. Serve is based out of downtown St. Petersburg FL and are comprised of 450-550 employees.
- 10-12 Entry-level/junior development openings to support their various projects
  o This includes: Web API team, Batch Processing team, Core Platform Development team and Transaction Processing team
  o Technical environment is comprised of the latest and greatest technologies including .NET 4.5, TFS, WCF/web-services, SQL and Oracle databases, Web API’s and Agile/Scrum
  o Fun and collaborative team culture, technical environment with a casual start-up feel. Fuseball tables and ping pong tables, 24/7 snacks and frequent team outings.
  o Candidate requirements:
    ▪ Bachelors Degree in Computer Science, Computer Engineering or related field
    ▪ Exposure to core programming languages (i.e- C, C++, C#, Java)
    ▪ Core understanding of OO Concepts (OOP/OOD)
    ▪ Aptitude and willingness to learn various tools, languages and technologies
    ▪ Great communication skills
    ▪ A passion for development and to support a wonderful organization such as American Express

Connectwise/Labtech (www.connectwise.com)
- Connectwise and Labtech are sister companies responsible for Software products within the Managed Service Provider industry. Their products are utilized within MSP organizations to gain secure remote access into databases and OS. They are based out of Tampa, FL and are comprised of around 300-400 employees.
- Multiple Junior and Mid-level development openings supporting various teams/projects
  o This includes: Web development and their “Software Development in Training Program”
  o Technical environment is comprised of a .NET platform, C#, Java, Javascript, HTML, CSS, SQL and Oracle databases
  o Young team environment and culture. Monthly company themed and catered lunches, daily stipend for lunch, out of office events.
  o Candidate requirements:
    ▪ Bachelors Degree in Computer Science, Computer Engineering or related field
    ▪ Exposure to core programming languages (i.e- C, C++, C#, Java)
    ▪ Core understanding of OO Concepts (OOP/OOD)
    ▪ Great communication skills, team-oriented and interactive individual
    ▪ Passion for IT/development, willingness to learn

Jennifer Ostrander | Recruiter - Microsoft Technologies
T 813.636.3720 | M 727.542.5909 | F 813.636.3792
jostrand@TEKsystems.com
4301 W Boy Scout Blvd, Suite #590, Tampa, FL 33607

TEKsystems is recognized as a top workplace. Learn why.