Dear CSE Students:

Welcome to the second newsletter of 2017!

**Message from the outgoing CS and CpE UG Advisor:** Registration is coming up soon. Those of you who are planning to graduate in Fall need to complete a Graduation Checklist and see me or Dr. Fang during the week of 3/20-24. You can find the Graduation Checklist on the CSE webpage under Undergraduate > Apply for Graduation. You should bring this form to ENB 301C (CS/CpE) or ENB 301A (IT) 11am-4pm on the Monday, Wednesday, or Friday this week, according to the first letter of your last name (see first attachment).

**Message from the incoming UG Advisor:** Spring break arrives next month. Registration will begin at the end of March. You will be able to register for summer and fall courses. Be ready! Have your courses planned out before it is time to register. Refer to your flowchart and DegreeWorks. I am available to discuss your options. If you will have an internship this summer remember to register for the internship course. There are two options which I will be happy to discuss with you. Your internship paperwork needs to be arranged before you start. I am going to be busy when registration starts. Why not take care of your advising now?

**Message from the Grad Program Assistant:** Students planning on graduating in Summer 2017, the Department Deadline to submit Graduation checklists is April 14th. Students appointed as TA/RA for this semester, your fee payment is due March 3rd by 5:00pm. Lastly, if you took the Qualifying Exams and passed in Fall 2016, the deadline to submit a Candidacy form is April 26, 2017.

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

- Graduation checklist deadline announcement
- Chih Foundation Fellowship
- FIU REU announcement
- Software engineering and developer positions at ISPA Technology
- Software development positions at Keysight
- Internship opportunity at Facebook Analytics (same page)
- Internship at AccessComputing
- Tampa Muay Thai internship
- IT internships at LeapDoctor
- CRM/SQL internship opportunity at Vector Solutions
- Summer camp IT Specialist positions

Regards,

William Hendrix
Outgoing Undergraduate CS/CpE Advisor (and Newsletter Editor)
Email: whendrix@usf.edu

The archive of old newsletters can be found at http://www.usf.edu/engineering/cse/undergraduate/student-newsletter.aspx
GRADUATION APPLICATION DEADLINES IN 2017

The following are Departmental graduation application deadlines for graduation in Summer and Fall 2017 and Spring 2018. If you expect to graduate in one of these semesters, you must see your program coordinator between **11am and 4pm** on the date given below, with a completed graduation application in hand. The application deadlines are set according to the first letter of your last name (all dates are in 2017):

<table>
<thead>
<tr>
<th>Semester</th>
<th>Last name A-F</th>
<th>Last name G-R</th>
<th>Last name S-Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 2017</td>
<td>March 20</td>
<td>March 22</td>
<td>March 24</td>
</tr>
<tr>
<td>Fall 2017</td>
<td>March 20</td>
<td>March 22</td>
<td>March 24</td>
</tr>
<tr>
<td>Spring 2018</td>
<td>October 23</td>
<td>October 25</td>
<td>October 27</td>
</tr>
</tbody>
</table>

Note that that the Summer and Fall 2017 application deadlines are the same. This is not an error.

Students in the Computer Science and Computer Engineering programs should see Dr. Hendrix (in ENB 301C). Students in the Information Technology program should see Dr. Fang (in ENB 301A).

You will need to fill-out the *College of Engineering Graduation Checklist* to meet Departmental requirements. This form (and instructions on what to do) can be found via the Department website. See here:

http://www.usf.edu/engineering/cse

(from the Department homepage navigate to Undergraduate > Apply for Graduation)

If you have any questions, do not hesitate to contact me.

Cheers,
William Hendrix

Email: whendrix@usf.edu
Office: ENB 301C
The Chih Foundation provides recognition awards for excellence in science and engineering. There is a $2,500 allotment for recognition prizes, which may be awarded to one student, or be distributed to several students based upon the number of high performing candidates nominated. One candidate will be selected for consideration from CAS, Engineering, Marine Sciences, Pharmacy, and Medicine.

The Chih Foundation has a particular interest in stimulating students to pursue research that has the potential to advance health science through publication and “open-source” sharing of information. Research projects will be evaluated in relation to the following:

- Publication in a peer review journal, or clear evidence of submission for publication
- Uniqueness of the research project
- Appropriateness of study design
- Choice and applicability of methods
- Complexity of the project and research
- Student contribution to the success of the project
- Clarity in content and format of the written materials

Applications can be self-nominations by the student, or initiated by a faculty mentor. Submissions should include the following materials:

1. Cover letter from the nominee describing how the research project benefits health care or advances science:
   a. Identify what the impact of this research has been or will be, once it is published and disseminated to the broader research community.
   b. Clearly specify what your role has been in the project.

2. A copy of the published paper, or submission for publication (should include abstract).

Please register the student using this form: [http://url.ie/11nzt](http://url.ie/11nzt) and submit the nomination application to Heidi Paintner in the Office of Graduate Studies ([hpaintne@usf.edu](mailto:hpaintne@usf.edu)) by Friday February 24, 2017.

Examples of past winners include:
• Abbie Kressner, a Ph.D. student in the Georgia Tech School of Electrical and Computer Engineering (ECE), has received a Chih Foundation Research Award. This award recognizes research and publications that reflect invention and innovation that make society better. http://www.ien.gatech.edu/news/abby-kressner-receives-chih-foundation-award

• Timothy Kassis, whose home school is the School of Electrical and Computer Engineering, is one of two recipients of a $2,500 Chih Foundation Research Award for 2015. The other winner, Rob Parrish, is a graduate student in the School of Chemistry and Biochemistry. http://www.research.gatech.edu/hg/item/402981

Best,

Ruth

Ruth Huntley Bahr, PhD

Assistant Dean and Professor

Office of Graduate Studies
4202 East Fowler Avenue, ALN 226
Tampa, Florida 33620-5816
813.974.7161 • Fax 813.974.5762
rbahr@usf.edu
www.grad.usf.edu
Programs Offered:
- Weekly Seminars/Workshops
- Research poster preparation
- Individual academic counseling
- Hands-on training with real world equipment
- Field trips, social and cultural activities

Eligibility Requirements:
- Undergraduate students majoring in a science or engineering discipline
- Must be a US citizen or permanent resident
- Minimum GPA of 3.25

All participating undergraduate students will receive a $2,000 monthly stipend, $750 travel allowance, on-campus housing, meals and material costs

For application inquiries contact:
FIU SST-REU Site Coordinators

Dr. Kemal Akkaya
kakkaya@fiu.edu

Dr. A. Selcuk Uluagac
suluagac@fiu.edu

Application Deadline
Feb 24, 2017
http://sst-reu.fiu.edu

Program Dates
June 1-July 31, 2017
Senior Software Engineer
Location: Tampa, FL

Do you want to join a fast-growing, dynamic company working on the latest technology contracts across the country?

ISPA Technology is that company. We have been listed 3 years in a row on the Inc. 5000 Fastest Growing Companies. A great company culture, competitive salary & bonus potential as well as a superior benefits package and more is what you can expect working for ISPA.

We have an immediate opening in our Tampa, FL field office.

Job Description:

Job Duties Include (but not limited to):

- Assess technology needs and evaluate solutions in support of DCGS-SOF program
- Writes, modifies, and debugs web and SOA applications
- Designs and develops critical components of the solution, including but not limited to, custom data adapter implementation, application interfaces, and security layer
- Create custom data parser for handling data resources in various formats for processing into an enterprise XML repository
- Create XML data schemas for existing and new data resources
- Create Use Case Analysis UML designs based on documented system requirements
- Work closely with Systems Analysts, Subject Matter Experts, Data Architect, Integrator, and Technical Lead in support of the design and development of technologies to support integration needs with external and internal systems
- Employ best practices for design, development, unit testing and test plan development
- Actively participate in the documentation of software requirements
- Actively participate and support functional design review, preliminary design review, critical design review, and basic acceptance testing
- Support DCGS-SOF team throughout the Software Development Life Cycle including production environment
- Participate in Scrum meetings and sprint planning

Desired Skills:

- Excellent communication skills; effective listening skills and follow through
- Ability to independently and as a member of a team resolve software problems
- Detail oriented and organized; able to drive solutions using the software development life cycle
- Team player able to work with a project manager, solutions architect, other developers, and customers
- NOSQL database expertise

Required Skills & Experience:
Senior Software Engineer
Location: Tampa, FL

- Experience with J2EE, Ember, Spring, Web Services, SOA, XML, XSL, XQUERY, SOAP, and REST
- 5-7 years of experience with software design, development, integration, and testing
- Experience working in an Agile development environment
- Experience working with the J2EE application architecture
- Experience working with database administration and design

Education & Certifications:

- Bachelor’s Degree in Engineering, Computer Science or a related technical field

Security Clearance:

- TS/SCI

Benefits:

- National health, vision and dental plans
- 4 weeks Paid vacations and (10) paid holidays
- Life Insurance
- Short and long term disability plans
- 401(K) retirement plan
- Incentive and recognition programs
- Relocation opportunities
Software Engineer | Computer Scientist

Location: Fayetteville, NC

Do you want to join a fast-growing, dynamic company working on the latest technology contracts across the country? ISPA Technology is that company. We have been listed 3 years in a row on the Inc. 5000 Fastest Growing Companies. A great company culture, competitive salary & bonus potential as well as a superior benefits package and more is what you can expect working for ISPA.

We have an immediate opening in our Fayetteville, NC field office.

Job Description:

As a Software Engineer | Computer Scientist, you will solve complex problems employing Go Lang, JavaScript, Sencha, Linux, C, C++, PERL, Bash, HTML, Python, Cassandra and Scripts. Rapidly prototype software and later transform it into a production system.

Must passionately create systems which will be used and have a major impact. You will interact directly with customers and end-users to gather requirements and feedback. Additionally, you will be working in a LINUX environment and will need to meet operational requirements.

Desired Skills:

- Write shell scripts, manage servers and lots of data
- Write unit tests, refactor existing code and work with existing codebases
- Understand algorithmic complexity, perform runtime analysis and to know when and what to optimize (as required)

Required Skills & Certifications:

- Ability to handle more than 1 project concurrently
- Ability to integrate MULTI-INT, Ops, and C4ISR to include streaming Cursor-On-Target and Full Motion Video data sets into the prototype and production systems
- Proven experience working in an agile development environment and collect customer requirements

Education & Experience:

- B.S. in Computer Science

Security Clearance:

- Top Secret w/ SCI Eligibility

Benefits:

- National health, vision and dental plans
- 4 weeks Paid vacations and holidays
- Life Insurance
Software Engineer | Computer Scientist
Location: Fayetteville, NC

- Short and long term disability plans
- 401(K) retirement plan
- Incentive and recognition programs
- Relocation opportunities
Software Developer
Location: Tampa, FL

Do you want to join a fast-growing, dynamic company working on the latest technology contracts across the country?

ISPA Technology is that company. We have been listed 3 years in a row on the Inc. 5000 Fastest Growing Companies. A great company culture, competitive salary & bonus potential as well as a superior benefits package and more is what you can expect working for ISPA.

We have an immediate opening in our Tampa, FL office.

Job Description:

As a software developer, you will provide software development support and will perform software design, development, integration, testing and documentation.

Must be capable of working as part of a development team on large projects as well as capable of managing a project individually. All projects are developed in an agile style using a SCRUM methodology. You will be required to perform troubleshooting and problem resolution to solve both technical and non-technical issues.

Required to understand and effectively communicate orally, in writing and interpersonally with various customers. All solutions created will create documentation to accompany software solutions to include installation instructions, user guides and more as required by the clients.

Required Skills & Certifications:

The ideal candidate will have recent relevant experience with the following:

- Windows 9x/2K/XP/Vista experience
- Linux Redhat
- Mac OS
- Experience with C/C++/C#
- MS Visual Studio 2013
- Experience with Java
- Experience with JavaScript
- Experience with Python
- Experience with HTML
- Experience with CSS/XSL
- Experience with MS SQL
- Experience with Spring MVC
- Experience with ThymeLeaf
- Experience with AngularJS
- Experience with Jquery
- Experience with JUint
- Experience with Jasmine
Software Developer
Location: Tampa, FL

- Experience with Ajax

Education & Experience:

- Bachelor’s degree in Computer Science or related field is preferred & 5+ years' experience as a Software Developer

Security Clearance:

- MUST have SECRET Clearance

Benefits:

- National health, vision and dental plans
- 4 weeks Paid vacations and (10) paid holidays
- Life Insurance
- Short and long term disability plans
- 401(K) retirement plan
- Incentive and recognition programs
- Relocation opportunities
Software Developer at Keysight Technologies

Keysight will be hiring 200 developers in the next two years at their Atlanta Design Center:


---

Facebook Analytics Internship

FB Analytics is looking for college sophomores who can code for an 8 week well paid internship this summer: [https://www.facebook.com/careers/university/fbuana](https://www.facebook.com/careers/university/fbuana)

Current sophomore (just completed freshman year - class of 2019), enrolled in a four-year BA/BS program at a university within the U.S.

- Available to work in Menlo Park, CA
- Willingness to learn SQL or other programming language (Python, Java, and/or C++)
Dear Department Chair or School Dean,

*AccessComputing*, a National Science Foundation funded project, aims to increase the participation of people with disabilities in computing careers. *AccessComputing* has funding for undergraduate students with disabilities to participate in summer research internships.

Undergraduate students with disabilities who are interested in summer research internships are encouraged to fill out the form at: [https://catalyst.uw.edu/webq/survey/blaser/318420](https://catalyst.uw.edu/webq/survey/blaser/318420). Through applying for an internship, students will have the opportunity to become *AccessComputing* student team members. Student team members engage in online mentoring and are eligible to request funding for internships, travel to conferences, and tutoring.

Faculty who are interested in hosting an *AccessComputing* student with a disability as a research intern, are encouraged to complete the form at: [https://catalyst.uw.edu/webq/survey/blaser/318417](https://catalyst.uw.edu/webq/survey/blaser/318417)

Learn more about *AccessComputing* by checking out our latest [Opportunities! newsletter](https://www.washington.edu/doit) that helps students with disabilities learn about careers in computing, locate resources, and learn about opportunities for students with disabilities.

For more information or help with the application, contact Kayla Brown at [kayladb@uw.edu](mailto:kayladb@uw.edu).

Cheers,

Kayla

--

Kayla Brown, MSW
Counselor/Coordinator, DO-IT
[www.washington.edu/doit](http://www.washington.edu/doit)
University of Washington, Box 354842
4545 15th Ave NE, Suite 100 | Seattle, WA 98105
206-221-4162 (direct) | 206-685-3648 (office/TTY) | 206-221-4171 (fax)
kayladb@uw.edu
INTERNSHIP OPPORTUNITY

Create an app to take Muay Thai into the digital world.

Expectations: collaborate design, build, & deploy to both android & apple markets.

EMAIL JILL@TAMPAMUAYTHAI.COM WITH RESUMES &/OR QUESTIONS
Leapdoctor.com and its subsidiaries are currently recruiting for top talent in Information Technology from the University of South Florida. In order to stay at the forefront of innovative healthcare technology solutions, we must continue planning and developing new products to shape the healthcare industry.

We are looking for Mobile and Web Developers, Graphic Designers, and Database Experts. What is that one skill that you are proud of and know best? – WE want you! We encourage teamwork by building highly skilled teams – we don’t want technical generalists, but rather subject matter experts. We then build the team with a mix of SMEs to create a highly effective and versatile teams to overcome major technical challenges. Show us your strongest skill today!

Some of our existing projects requiring growth and enhancement support:

1. Xalendar: This project combines advanced algorithm design with a Calendar to create the ultimate smart scheduler. Using prioritization techniques, we take a whole new approach to the age old problem of time management and everyday life.

2. Job Search: Our first line of business, to advertise vacant healthcare positions and assist practitioners in landing the dream job they want. We are building a community of Locum Tenens to practice in facilities where there are gaps in physician coverage.

3. Conference Finder: This application allows Physicians to track, organize and attain Credits Medical Education (CME) in order to stay current with practice requirements for their Profession and Specialty.

Seeking Skills:
- NoSQL DB programming: MongoDB, DynamoDB
- Javascript (AngularJS, MeteorJS, NodeJS)
- Amazon Web Services (EC2, S3, Route53)
- Networking and Cybersecurity
- Xamarin, Visual Studio and Ionic Platforms
- C# and ASP.net
- Creative Skills: Artwork, Drawing, and Graphic Design
- Prototyping: Invision, Marvel or UXPin
Title: CRM/SQL Analyst Intern

Location: Tampa

Vector Solutions is an award winning, provider of cutting edge, technology based training solutions for a range of markets including Architecture, Engineering, Construction, Industrial, Public Safety, IT, and Project Management. Our team members are dedicated, interesting, passionate, and results-oriented, and they're committed to ensuring that all clients receive only the best online learning solutions and world class customer service.

Position Overview:

Vector Solutions is seeking a CRM/SQL Analyst Intern to maintain Dynamics CRM and external data, create custom reports and analyze SQL Server queries and stored procedures. This internship will be Monday-Friday between the hours of 8:30am-5:30 pm and will require a minimum of 20 hours of involvement per week. A flexible work schedule will be available to accommodate class schedules.

Responsibilities

- Manage and run SQL queries and procedures to scrub databases and maintain data integrity;
- Assist in administering Microsoft Dynamics CRM as well as Salesforce CRM;
- Develop knowledge of enterprise systems and the underlying data structure of these systems;
- Create and run ad hoc SQL queries; provide organized, formatted query results to business users;
- Create, manage, and run data imports from a variety of sources using third-party ETL tools such as MS Excel, JitterBit, SCRIBE, SSIS, SSAS;
- Create custom SSRS reports.

Requirements:

- Enrollment and good standing in a bachelor’s degree program required (Computer Science, Information Systems, Business Administration, Mathematics preferred);
- Some SQL programming experience—writing queries, stored procedures, etc.;
- Some exposure to Salesforce and/or Microsoft Dynamics CRM (preferred);
- MS Excel knowledge and experience particularly with using functions (preferred);
- Detail oriented with strong prioritization skills;
- Strong analytical, problem solving, communication and coordination skills;
- Ability to function in a high-volume, high-stress environment.
- A written recommendation from one Professor highlighting your skillset and qualifications.

If you are interested in this opportunity and meet the above requirements, please email your resume and letter of recommendation from your professor to: gemma.mccloskey@redvector.com
I'm the Southeastern Regional Manager for Summer Camp Operations for Youth Digital. We are currently hiring **Summer Camp IT Specialists** for our tech-based camps for kids ages 8-14 in DC. We partner with local schools ([http://www.youthdigitalcamps.com/tampa.html](http://www.youthdigitalcamps.com/tampa.html)) to deliver amazing experiences! If you have any CS students that might be interested, thank you for sharing this information with them.

**What we do:**

We spend this summer making Kid's dreams come true. We offer exciting and cutting edge camps to kids ages 8-16 using innovative curriculum with cutting-edge immersion and project based classes. Students will learn from us not only how to code, illustrate, and render, but ultimately how to Create. By Creating Creators, we inspire beyond the technical skill, and help them develop real world skills.

This is a paid position. Most camp days run from about 8:30am to 4:30pm (M-F) though some sites do vary. We have online training that can be completed on staff member's own time as well as one day of onsite training. Both of these are compensated. Staff will complete background screening and need reliable transportation to our partner schools.

I'll be happy to provide additional information or answer any questions.

To apply:


---

**Mark Shivers, Ph.D.**  
Southeast Regional Manager - Summer Camps  
919.450.7412  
mark.shivers@youthdigital.com