Dear CSE Students:

Welcome to the third newsletter of 2017.

| Message from the outgoing CS and CpE UG Advisor: | Everyone graduating this Fall should bring your graduation checklist to me or Dr. Fang before registering (see the first attachment)—this is not optional. For everyone else, registration is just around the corner, so make sure you know what classes to sign up for! |
| Message from the incoming UG Advisor: | It is time to register for summer and fall. Make sure you register as soon as you can. Check OASIS for your registration time. Don’t wait until the end of the term to register. You can always change your schedule before the add/drop period ends. Register for a full schedule in the fall but don’t overdo it in summer. If you will graduate in summer or fall, make sure you have submitted your graduation checklist. The checklist is required to qualify for permits into some of the final courses for your degree. I am available for scheduled appointments and walk-ins on most days. My walk-in schedule is posted. |
| Message from the Grad Program Assistant: | Students who are planning on graduating Summer 2017, the Department deadline to submit a Graduation Checklist is April 14th. If you took the Qualifying exams and passed (either Fall 2016 or Spring 2017) and have questions regarding Candidacy, please see me in ENB 342D. The deadline to submit Candidacy forms for Spring 2017 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
- Academic Integrity Committee announcement
- REU at Montana State University
- Study Abroad in India
- Deloitte software developer opportunity
- AG Intech programmer position
- ICE Security Analyst job opportunity
- AgileThought IT Associate program
- Validation and Testing Intern position at JL Marine Systems
- Summer internship in Natural Language Processing
- Mobile application developer with College of Behavioral and Community Sciences
- Alexa online hackathon and Neilsen image recognition hackathon
- Quantum Computing talk

Regards,

William Hendrix
Outgoing Undergraduate CS/CpE Advisor
Email: whendrix@usf.edu
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
Representatives needed for the USF Student Academic Integrity Committee

The USF Student Academic Integrity Committee (SAIC) engages students who are committed to academic integrity in activities that promote the Commitment of Honor among students at the University of South Florida, Tampa Campus. The SAIC is a subcommittee of the President’s Ethics and Integrity Council (EIC) and operates in partnership with the Judicial Branch of the USF Student Government. The SAIC has three primary functions: Education, Prevention/Advocacy, and Case Review.

Responsibilities
The duties of USF Student Academic Integrity Committee members are to:
1. Assist with the development of educational activities to create University-wide awareness of the USF Commitment to Honor, the importance of academic integrity, and the importance of responsible conduct of research, e.g., ethics training tutorials, curriculum-related practices, and others.
2. Develop activities to advocate for academic integrity at USF and to prevent students from engaging in academic misconduct, e.g., peer-to-peer seminars, guest speakers, peer mentoring, ethics video contest, academic integrity week.
3. Complete training activities related to ethical behavior, academic integrity, and the responsible conduct of research to prepare them to serve on the Academic Integrity Review Board (AIRB).
4. Serve on AIRB committees when requested by a College Dean or designee.
5. Send representatives to conferences on academic integrity and report back to the SAIC, EIC, and other groups on emerging ideas and trends for promoting academic integrity.

The SAIC Committee meets at least twice each semester to plan and conduct educational, prevention, and advocacy activities.

Membership
The SAIC consists of students who value academic integrity and ethical behavior in higher education. In order to be eligible for the SAIC, students must have (1) a minimum of 30 undergraduate hours or 24 graduate hours with a cumulative GPA of 3.00 (Undergraduate or Graduate) and (2) no record of violations of the USF Commitment to Honor.

Students may be nominated by their college or the USF Student Government. Self-nominations are welcome. An on-line application is available at http://intra.cbcs.usf.edu/forms/saic/ Applications will be accepted until all positions are filled.

Training Workshop
Training workshops for SAIC members are conducted annually on the USF Commitment to Honor; the USF Academic Integrity Policy; due process, fact-finding, and procedural issues; case studies involving potential violation of academic integrity. The training is highly interactive and will give students practice in participating on review committees at the college level. After students complete the training, their names will be added to a pool to serve on USF Academic Integrity Review Board (AIRB). Students will be eligible to participate in AIRB hearings for any college within the university unless designated otherwise in the USF Academic Integrity Regulation 3.027.

Please consider serving on this important committee.
Best
Ruth Bahr

Ruth Huntley Bahr, PhD
Assistant Dean and Professor
2017 Summer Research Experience for Undergraduates
Research and Development of Algorithms in a Software Factory

Topics Include:

- Tools for Computing Genomic Distances with Gene Duplications
- Software Tools for Pan-genomics
- Sustainable Software Package for Topological Data Analysis
- Understanding Trustworthiness in Mobile Social Networks
- Studying the Structure of Music through Topological Data Analysis
- Risk-based Vehicle Health Management
- Biomedical Natural Language Processing Tool for Extracting Protein-Function Relations from Literature

Highlights:

- 10 weeks, May 29 - August 4, 2017
- $5000 stipend
- Travel expenses up to $600
- Housing at Montana State University (MSU)
- Meal allowance $120/week
- State-of-the-art research facilities
- Faculty-student mentoring
- Weekend outings and social activities

About Montana State University:

- Located in Bozeman, Montana, an extended community of 70,000 nestled in the Rocky Mountains
- Approximately 16,000 student and over 2,000 graduate students

Nearby Attractions:

- Yellowstone National Park
- Recreational opportunities including mountain biking, hiking, blue-ribbon trout fishing, only minutes from campus
- Sweet Pea Festival and weekly Music on Main

Eligibility

- US citizens or permanent residents
- Sophomore standing in computer science or closely related field (see website for full details)

Program Director
Dr. Clemente Izurieta
clemente.izurieta@montana.edu

Program Co-Director
Dr. Brendan Mumey
brendan.mumey@montana.edu

More Information and How to Apply:
HOW TO APPLY
Applications are now entirely online. Please go to the program website at http://EducationAbroad.global.usf.edu and click on the “Apply Now” button.

CONTACT
Dr. Manish Argawal
Muma College of Business
magrawal@usf.edu

EDUCATION ABROAD
(813) 974-5474
educationabroad@usf.edu
CGS 101 or MSC 3301
STUDY HARD, TRAVEL OFTEN.
OVERVIEW
This program offers an unparalleled opportunity for students to gain cutting-edge information systems courses in one of the world’s most vibrant and fascinating cultures. India has experienced meteoric economic growth over the past decade, and it is predicted that by 2050, it will have the third largest economy in the world. India is also considered to be among the leaders in providing information technology services and innovation. The 3-week intensive IT Summer School will be conducted in Mysore, India at the training and education facilities of one of the world’s IT industry giants: INFOSYS.

WHO CAN PARTICIPATE
The program is open to undergraduate and graduate students who have completed course work or have relevant work experience in System Analysis and Design.

COURSE INFORMATION
The pre-requisite for participating in this program is ISM3113: System Analysis & Design or equivalent course work/work experience

Participants will earn 3 credits in ISM 6930: Software Engineering (Graduate) / ISM 4930: Software Engineering (Undergrad)

PROGRAM COST
Program Fee: $2155 + In State Tuition

COST INCLUDES:
• Mandatory Pre-departure Sessions
• Accommodations at Infosys campus,
• Double Occupancy Accommodations during weekend trips
• Excursions to areas of interest (e.g. Delhi, Taj Mahal, etc.)
• Emergency Insurance
• Visa to India
• Meals during weekend excursions

COST DOES NOT INCLUDE:
• Vaccinations
• International Airfare
• Weekday Meals ($200)
• Optional trip cancellation/travel insurance

India ISM JUNE 3 TO 23, 2017 MYSORE, AGRA, AND DELHI, INDIA
Deloitte’s US Delivery Center is Growing!
Apply Today to Join Our Technology Consulting Team

Deloitte’s Technology Consulting business is growing (and quick!)

Deloitte Consulting is looking for full time solution developers who have a passion for emerging technologies to join our US Delivery Center team in helping clients navigate the exciting and uncharted territory of cloud technologies.

From deploying a cloud-based platform to helping companies create an agile technology infrastructure that can quickly adapt to new products and business models, our consultants are equipped with the technical know-how and business mindset to help clients rise in the face of tomorrow’s competitive demands.
We are currently recruiting Solution Developers into our Technology Consulting practice with the following profile:

- **Bachelors and associates degrees** (graduation date of May 2016-Aug 2017) in Management Information Systems, Computer Science, Software Engineering, or IT-related area
- Experience and proficiency with one or more programming languages such as C++, Java, .NET, Python, SQL, XML, HTML, JavaScript
- Knowledge of cloud based technologies with a desire to get hands-on experience with applications such as AWS, Azure, and Google Cloud
- Cumulative GPA of a 2.9 or above

To be considered, please complete both action items below by Friday, March 31st:

1. Email a copy of your resume to Christina Keller (chrikeller@deloitte.com)
2. Create a Deloitte profile by following the link below. Create a Deloitte Profile Here
**Company Description**

We are a Miami based tech company whose business model focuses on streamlining operations for full vertical integration as a leading international Broker Technology System in TI Distribution. Our company handles all our channels including Product Acquisition, Refurbishment, Packaging, Distribution and Freight Logistics, and Retail Operations; in other words, there is no middle man. We have a friendly office environment where we welcome new ideas and help cultivate growing talent. For more information, please visit agintechllc.com.

**Job Description**

We are looking for a talented programmer to create secure, functional code while providing quality coding solutions both for simple applications and complex information or operating systems in a timely manner. The ideal candidate will have a passion for technology and software building. Attention to detail and an analytical mind are essential qualities for a successful career in within the company. The goal is to design and build superior and innovative software. Primarily, the work for the chosen programmer will be back-end but they should have knowledge of how to code front-end.

We are looking for a graduating college Senior able to commence work between May and June.

**Requirements**

Knowledge and proficiency in the following software:

- Yii Framework (2.0)
- DataTables (Editor version)
- PHP version 5.4+
- MySQL (queries-SQL)
- JQuery
- OpenCart
- Regular Expression

Knowledge of the following is a PLUS:

- Linux
- Bootstrap
- Javascript

**Job Type**

**Full-time**

Starting salary: **$18.75 per hour**

Please send resumes to Kiabeth Camejo at kia@agintechllc.com. Also, visit Handshake/USF Career Services.
Analyst/Engineer - Application Security (AppSec)

An ICE IS AppSec Analyst, Engineer, or Senior Engineer is part of a team responsible for ensuring that ICE produces and maintains secure applications. The team member influences secure design, performs code analysis, identifies vulnerabilities through red-team and penetration testing, assists developers in remediation efforts, and communicates findings to our developers, QA teams and management.

Core Competencies

- **Teamwork**: works well with teammates locally and at remote offices; shares knowledge and is seen as someone to go to for help; contributes in weekly peer meetings.
- **Problem solving and decision making**: demonstrates a sense of urgency; takes ownership of problems and follows temporary fixes with permanent solutions; finds creative solutions.
- **Communication**: is clear and accurate in verbal and written communication; listens to peers and supported employees; follows directions and provides useful feedback.
- **Professionalism**: makes a positive impression in person, via phone, and electronically; models a ‘can-do’ attitude; embraces additional responsibility; refrains from office gossip or conflict; works extra hours as-needed to ensure work is complete; adheres to corporate policy and encourages others to do the same.

Core Duties – IS AppSec (Application Security)

- **Application Identification and Review**: Operates the Application Development Security Lifecycle from design review through automated and hands-on testing.
- **Standards and Policies**: Maintains and contributes to Application Development Security Policies and standards.
- **Secure Design**: Establishes security requirements early in the SDLC and contributes security subject matter expertise during the development of new projects and releases.
- **Tool Management**: Implements and maintains cutting-edge technology to assess application and infrastructure security using static code analyzers, dynamic testing tools and vulnerability scanners.
- **Developer Education**: Keeps software engineers apprised of secure coding practices and builds strong rapport and respect with the ICE application development community via training sessions, one-on-one education, Intranet blogs and other opportunities.

Analyst, Engineer, and Sr. Engineer Distinction

Seniority is determined by experience and demonstration of exceptional competencies including:

- Documenting and effectively publishing technology guidance and repeatable processes
- Mentoring peers in groups and individually
- Improving processes and introducing superior technology
- Taking initiative to learn business goals, liaise with other departments, and identify ways to increase productivity in other ICE groups and offices

Desirable Skills and Experience

- University degree in Computer Science, Engineering, MIS, CIS, or related discipline
- Hands-on experience with Systems Administration and/or IP Networking
- Software engineering experience in Java, C++, and/or related languages
- Experience in an exchange, trading facility, or financial services

Specific Technologies:  
Java, C++, HTML5, .NET, iOS & Android, Checkmarx, WebInspect, BurpSuite, Nessus, Nexpose, RDBMS, SQL, Open Source Security Tools

If interested, please email: randy.tuazon@theice.com or rtuazon@mail.usf.edu your resume.
About

The Junior Information Technology Associate (ITA) Program is an initiative of AgileThought, a full service software development and implementation firm. The program is designed to help recent graduates launch their career in technology by receiving training in a specific areas of interest, getting hands-on experience working within project teams, and working with a company ranked six times as a "Best Place to Work."

Choose an entry path that compliments your skills and interests:

**Business Analyst**
Business Analysts work with Product Owners to create clear user stories, conduct backlog grooming sessions and collaborate with project team members to create understandable and testable acceptance criteria.

**Quality Assurance**
Analyze system specifications and user stories to design and develop test plans and test cases. You will execute test cases, log defects, facilitate user acceptance testing, generate testing reports and facilitate bug triage meetings.

**Developer**
Work on a project team to develop and implement software applications and components. This includes writing unit tests, using code coverage tools and code reviews. You will work from written specifications and pre-established guidelines to perform the functions of the job and maintain documentation of process flow.

Join a fun, diverse, award-winning team!

AgileThought has a focused but relaxed atmosphere — one that encourages fun, laughter and work life balance. It really is a unique place to work, full of talented individuals who are highly collaborative.

Jessica Diehl
Marketing Assistant

Start your path with us today:

E: careers@agilethought.com
Position Available

Job Title: Validation and Test Intern

Reports to: Elizabeth Horton

Department: C-Monster Division

FLSA Status: Non-Exempt

Summary

The Validation and Test Intern will work closely with the product development team, and be responsible for the testing and validation of new and existing products. This includes the development of test procedures and methods, design and build of test fixtures, design of manual and automated tests, and execution of verification test plans. This is an opportunity to write both PC programs and work on embedded systems.

The environment at JL Marine is team-oriented, with an ambitious pipeline of diverse projects. We need a disciplined intern that can step in with minimal direction and immediately be impactful to our product realization goals. The successful candidate will be resourceful, able to quickly assess testing needs, present plausible solutions and develop a plan to implement them. This is also not just a semester opportunity.

Duties and Responsibilities

- Work in verification and validation areas of the Product Development lifecycle for embedded software and hardware development and release (prototype and production)
- Lead defect tracking/management
- Execute/define testing procedures with guidance of lead and development engineers
- Be responsible for writing/developing test methods, cases and procedures
- Manage code quality control and validation (including phone apps)
- Specify and/or design test system needed to satisfy testing requirements
Qualifications

- Minimum 3 years toward a Bachelor’s degree in Computer Engineering, or Electrical Engineering degree preferred.
- Experience with Microsoft Office
- Excellent oral and written communication skills required
- Good problem solving skills required
- Experience with a programming language such as C or Java
- Experience with python is a plus
- Experience with lab tools such as oscilloscopes a plus
- Basic solder skills are a plus
- Experience with lab software such as CVI or Labview is a plus

Working Hours

- Part-time position. Hours are flexible and based on the needs of the selected candidate.
- Work to be completed on-site at JL Marine Systems, Tampa

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily and work extremely well with others.

This is an hourly paid position.

If you have the qualifications and are interested in applying for this internship, please email your resume to Elizabeth Horton, ehorton@jlmarinesystems.com
IHMC Summer Internships

We seek talented student researchers to be part of the IHMC research team to work on a project to build emotion AI into a TTS (English) translating pre-recorded wav files. The position is available for students who are currently pursuing an undergraduate or graduate degree in linguistics, computational linguistics, computer science, or related fields.

The student will work on developing an annotation scheme for emotions in language, data annotations, identification of semantic/syntactic generalizations related to emotion terms and encoding emotion-related information into an ontology.

Ideal candidate will have a preferred background in linguistics and an interest in doing NLP research. Familiarity with programming and experience with annotation tools, such as MAE and/or Brat is also preferred but not required. We expect a candidate with excellent analytical and problem solving skills and good communication and teamwork ability.

To Apply:
Please send a resume, cover letter (maximum two pages) and names of two references to <lx+nlp@ihmc.us>.

Location: Institute for Human and Machine Cognition (IHMC), Ocala, FL

Application Deadline: April 15, 2017 or until filled

IHMC is an AA/EEO Employer.
This is a position for a mobile application developer. Your role will be to extend and maintain an established application written in C# with Xamarin. This application is used in a research setting to collect data for a research grant.

Desired Experience

- C# or similar strongly-typed language
- Xamarin
- iOS and Mac development

Additional Experience viewed favorably

- Javascript
- Construct 2

Please contact John McCardle (johnmccardle@mail.usf.edu) with your resume, or apply for the position on Handshake: https://usf.joinhandshake.com/jobs/658651
Nielsen is having an Image Recognition Hackathon, and it is virtual so we are inviting universities to participate as well. There will be multiple 'challenge categories' and the team with the best solution for each one will win $1,000!

Teams can register until Thursday, 3/30 and everyone registered will receive the challenge details and test data at the same time on Friday, 3/31. We will also share a form for submissions, which will be accepted until the hackathon ends on Sunday, 4/9. **HERE** is the link to register.

Feel free to forward this information to any students you think would be interested in participating.

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**Amazon Alexa Skills Challenge**

**Prizes:** $43,620 in cash, gift cards, Echos/Dots/Taps, and meetings w/ Alexa leaders

**The ask:** Build a new voice-activated skill for Alexa that makes life simpler, more convenient and organized, or just more fun. Home automation, games, and smart device interaction.

**Deadline:** May 9

Full details are at [alexa.devpost.com](http://alexa.devpost.com).
THE UNIVERSITY OF SOUTH FLORIDA DEPARTMENT OF MATHEMATICS AND STATISTICS PRESENTS
THE 2017 R. KENT NAGLE LECTURE
CYBERSECURITY AND THE QUANTUM ERA
QUANTUM THEORY REWROTE THE RULEBOOK FOR PHYSICS OVER A CENTURY AGO

MICHELE MOSCA
Professor in the Faculty of Mathematics at the University of Waterloo

Mosca will discuss the importance of new cryptographic foundations for cybersecurity to be safe in the quantum era. Quantum effects are used for precise measurement, powerful computation, communication and many more uses yet to be discovered. However, quantum computers are breaking the most important tools currently protecting cyberspace.

Michele Mosca is co-founder of the Institute for Quantum Computing at the University of Waterloo and the co-founder and Director of CryptoWorks21, an NSERC-funded training program in quantum-safe cryptography.

THURSDAY, APRIL 6, 2017
CWY 206 USF TAMPA CAMPUS, 7:30 P.M.