Dear CSE Students:

Welcome to the third newsletter of the Spring 2020 semester.

Message from the UG Advisor: Those of you planning to graduate at the end of the fall term of 2020 should note that the deadline to submit your graduation checklist is Friday, March 27th. Details about the graduation checklist are on the CSE website.

Now is a good time to meet with your CSE advisor to plan summer and fall before the rush that occurs once registration opens. Information about advising availability is on the CSE website under Advising and Office Hours.

Message from the Grad Program Assistant:
- Students graduating this Spring, please make sure that you have applied for graduation and that you submit your Graduation Checklist and Plan of Work to me. You can submit it via email or drop it off in ENB 342E.
- For international students applying for OPT, submit all requests in a timely manner. For Graduate Advisor information, please use the following: Jessica Pruitt jlpruitt@usf.edu
- For Graduate Assistants: please make sure to pay your fees by 2/28, even if your tuition waiver has not been processed. Do not pay the tuition, the waivers should be processed shortly. If you get a late fee, we can submit a Late Payment Fee Waiver form.
- Registration for Summer and Fall will begin March 30. Make sure that you verify your time ticket for registration beforehand.

Attached are announcements for the following (please note that this listing does not imply University or Department endorsement):
- Capital One Web App Challenge
- Sigma Xi Research Funding Opportunity
- Congressional Innovation Scholars Program
- Grace Hopper Conference Scholarship Opportunities
- Tapia Conference Scholarship Opportunity
- Data Driven Cybersecurity Fellowship Opportunities
- Georgia State University REU in Immersive Media Computing
- Texas State University REU in Smart & Connected Communities
- Hispanic Student Leadership Summit 2020
- Dynamic Talks at CitiBank
- Software/Firmware Engineer Career Opportunity
- StellarNet Inc Job Opportunities
- TableDot Internship Opportunity

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Build a web app to help people pick the right restaurant

Deliverables

We would like for you to build a web application using Yelp's Fusion API that will help users pick a restaurant or experience. We want to see your creativity in action! Just make sure your solutions include these requirements:

1. Submit a deployed web application and include both your website URL and the supporting Github repository
2. The app ust use Yelp's Fusion API
3. Your app should be able to plot merchants on a map
4. Your app should be able to obtain user location via HTML5 Geolocation

Feel free to go above and beyond these requirements as you build your solution! Here are some other features to consider:

- Display trends and stats about popular cuisines, quality cuisines, etc.
- Create a chat bot
- Unique and interactive user interface
- Any other creative ideas you have!

To find out more and to apply please go to https://www.mindsumo.com/contests/d052bcf8-4580-4922-95ef-a9f6ceaf0f10
Are you doing research in mathematics or computer science?

Sigma Xi, The Scientific Research Honor Society invites undergraduate and graduate students to apply for research funding through the Grants in Aid of Research (GIAR) program.

The deadline to submit applications is March 15, 2020 at 11:59 pm Pacific Time. The grants are made possible by designated funds from the National Academy of Sciences and from donations. Students may apply for funding from the program twice each year.

Proposals are evaluated based on scientific merit and how well they align with the funding criteria, including description of the hypothesis, methodologies, budget, and significance of the proposed investigation. Guidelines and a list of fundable expenses can be found here.

Interested applicants are invited to watch a recording of Sigma Xi's Google Hangout, "How to Submit Your Best Grant Application," to learn about the Grants in Aid of Research application review process.

Please forward to colleagues. If you have any questions, contact us by sending an email to giar@sigmaxi.org.

Sincerely,

Janelle G. Simmons, Ed.D.
Manager of Programs
Sigma Xi, The Scientific Research Honor Society
Congressional Innovation Scholars Program

TechCongress is now recruiting for an expanded 2020 class of Congressional Innovation Scholars, our pipeline to Congress for graduate students in technical degree programs.

Apply for the 2020 Congressional Innovation Scholars program by March 15.

The Scholars fellowship is the sister program to our Congressional Innovation Fellowship. While the Congressional Innovation Fellows are largely mid-career—our 2020 class, on average, has nearly a decade of professional experience—our Scholars program is our pipeline to bring graduate students in technical degree programs into Congress.

Why are we growing our fellowship program for students? Because students are asking for it.

Every few days we hear from a student who wants to apply their computer science, engineering, data science or other technical skills to public problems. These students are craving meaningful work in government or public policy but have no pipeline to jobs in Congress or elsewhere.

And as we witnessed during the Zuckerberg hearings—and in Iowa this week, when a vote-recording app upended the Democratic caucuses—more technical acumen is urgently needed in our political institutions.

We're looking to quadruple our Scholars program this year, recruiting up to eight fellows for the 2020 class. The program will start in June 2020, and Scholars will spend ten months in Congress. The program pays a $55,000 annual-equivalent stipend and includes funds for relocation, health care, and travel.

Learn more about the 2020 Congressional Innovation Scholars program on our website, or join an upcoming informational call.

Want to help us spread the word? Retweeting our application announcement, or forwarding this email to prospective candidates are great ways to chip in.
GHC Scholarships and Complimentary Registrations

**GHC Scholars Program for Students and Faculty**
Applications are open from January 15 to March 4, 2020.

The GHC Scholars Program provides funds for women who are either undergraduate students, graduate students, or faculty to attend our Celebration. Women who get selected as scholars gain access to career and academic workshops, networking opportunities, and memories that will last a lifetime.

**GHC Women in Boot Camp Scholarship**
Applications are open from January 15 to March 4, 2020.

To increase access for women from alternative tech programs such as boot camps and coding schools, AnitaB.org is providing a limited number of scholarships that cover the cost of attending GHC including: registration, accommodations, airfare, and a stipend to cover meals and incidentals.

**Women of Color in Technology Complimentary Registration**
Applications are open from January 15 to May 15, 2020.

To increase access to women of color who are underrepresented in the tech industry, AnitaB.org is offering complimentary registrations to attend GHC 20.
Apply for a 2020 ACM Richard Tapia Celebration of Diversity in Computing Conference Scholarship TODAY!

The Tapia Conference provides conference travel scholarships for students (community college/undergraduate/graduate) and post-docs at colleges and universities in the U.S and U.S. Territories. The conference also offers a limited number of scholarships for faculty and post-docs at Minority Serving Institutions.

Scholarships include conference registration, meals during the conference, hotel accommodations, and a reimbursable travel stipend. Tapia scholarships are generously funded by government and industry organizations. Scholarships are reviewed by volunteers from industry and academia.

Students submitting a poster or to the doctoral consortium as part of the Tapia Call For Participation (CFP) need to submit their scholarship applications by the CFP deadline.

Tapia 2019 Scholarship Application Deadlines:

- Poster and Doctoral Consortium Program Submitters: March 9th 11:59 pm PT
- General Tapia Scholarship Applicants: March 27th 11:59 pm PT

Apply for a Tapia Scholarship Today!
Data Driven Cybersecurity Fellowships

Several fully-funded Ph.D. fellowship positions in “Data-Driven Cybersecurity” are available for Ph.D. applicants at the Department of Computer Science and Engineering (CSE) at the University of Colorado Denver (UCD). Selected fellows pursue data science research in cybersecurity application areas, such as adversarial machine learning, data-driven authentication and authorization, pattern mining from cyber logs and graphs, and secure infrastructures and cyber-physical systems (IoT), to name a few.

The fellowship program will provide full financial support for Ph.D. fellows in the form of tuition & fees, travel support, and support for research resources, in addition to up to $34,000 annual stipend.

I am reaching out to you to humbly ask you to announce this excellent opportunity to potentially interested students or colleagues.

To be eligible, an applicant must:
- apply and be admitted to the CSIS Ph.D. Program at the Department of Computer Science and Engineering (CSE), University of Colorado Denver (UCD)
- be a US citizen or permanent resident (green card holder)
- demonstrate their financial need to receive fellowship (by submitting FAFSA application)

More details about the fellowship program are available here: [http://cse.ucdenver.edu/~ddc/](http://cse.ucdenver.edu/~ddc/)

If interested or need more information, email me at haadi.jafarian@ucdenver.edu ASAP.
Immersion Media Computing

https://grid.cs.gsu.edu/reu-immersive-computing/

The Department of Computer Science and Creative Media Industries Institute at Georgia State University host the NSF REU Site: 8-week Summer Research for Undergraduates in Immersive Media Computing for 10 students.

Each REU participant will work with faculty advisors, industry advisors, graduate student mentors, and other undergraduate students to carry out a research project in areas such as VR/AR, 360-degree video, image processing, video streaming, image analysis, computer vision, HCI, and parallel computing, etc. The REU students will have access to state-of-the-art VR/AR lab, WorldViz VR/AR CAVE, 4DViews volumetric capture lab, etc. Tutorials, research talks, and programming workshops will be held to guide the students. The REU students will have the opportunity to submit and present their work at academic conferences. We particularly encourage underrepresented students (such as minorities and women) to apply.

Atlanta is a modern city with rich traditions. Major attractions include World of Coca-Cola, Georgia Aquarium, Centennial Olympic Park, Center for Civil and Human Rights, CNN, Mercedes Benz Stadium, College Football Hall of Fame, the Margaret Mitchell House, etc. Most of the attractions are close to Georgia State University campus.

Important Dates

Early Application Date: March 15, 2020
Final Application Deadline: April 26, 2020
Application review will start on March 16 and notification will be sent out after April 1 on a rolling basis. After the early application date, application will still be accepted until April 26 if positions are available. Preference will be given to early applicants.

Program Date: June 15 - August 8, 2020

Eligibility

1. US citizen or permanent resident of the United States
2. A full-time undergraduate student in STEM fields.

Financial Support

8-week Stipend: $4,800
Meal allowance: $1,350
Travel allowance: $500
Free on-campus university housing

Application

1. Complete Online Application Form at https://grid.cs.gsu.edu/reu-immersive-computing/ApplyNow.php
2. For additional questions, please contact
Program Coordinator
Xinyu Hu
xhu10@gsu.edu
Department of Computer Science
Georgia State University
Summer 2020

Research Experiences for Undergraduates in Smart & Connected Communities

This REU Site is funded by the National Science Foundation and hosted at Texas State University – San Marcos

Recruiting 10 motivated undergraduate students to conduct research in the area of Smart & Connected Communities (S&CC) for 10 weeks over the summer of 2020

Research overview
The main research theme of this opportunity is in the emerging area of Smart & Connected Communities (S&CC), the essential building blocks of smart cities. Here are few example applications:

- Development of models, mechanisms and tools for smart human-environment interactions and protection of smart infrastructure.
- Data collection and analysis to promote health and well-being of citizens in urban settings.
- Novel scheduling and monitoring methods for intelligent transportation systems.

Benefits:
- Learn how to conduct research.
- Gain hands-on experience in robots, sensors, data collection and analysis, simulation experiments, and intelligent applications.
- Participate in various activities (e.g., seminars, tutorials, picnics, etc.).
- Learn how to write research papers and present your work.
- Visit nearby hi-tech companies (e.g., IBM, Google).

Other benefits include:
- $6000 stipend
- Travel support (up to $600)
- Housing and meals included

Must be a U.S. citizen or a permanent resident

Important dates:
- Application due........Mar 1, 2020
- Notification...............Mar 27, 2020
- Program starts..........Jun 1, 2020
- Program ends...........Aug 7, 2020

For more information and to apply:
http://reuscc.wp.txstate.edu/
Hispanic Student Leadership Summit 2020

On **Friday, April 17th and Saturday April 18th**, Google will gather 50 engineering and computer science students from across the US and Puerto Rico for our fourth annual Hispanic Student Leadership Summit (HSLS) in partnership with the [Hispanic Association of Colleges and Universities (HACU)](https://www.hacu.net) and [Computing Alliance of Hispanic Serving Institutions (CAHSI)](https://www.cahsi.org). Google’s HSLS was created as an effort to bring Latinx leaders together to share innovative and creative best practices with one another, as well as collaborate with Google’s Latinx leadership to benefit your university, organization, and community.

**Details:**

**Who:** Undergraduate student leaders with a passion for tech and an interest in growing their leadership

**When:** Friday, April 17th - Saturday, April 18th

- **Travel days:** Thursday, April 16th and Sunday, April 19th

**Where:** Google Office in Austin, Texas

**What:** The agenda includes breakout discussions, networking with the Hispanic Google Network, student group presentations, and a unique celebration for Summit attendees!

**How to Apply:**

Submit a completed application form no later than Sunday, March 1st. We will confirm selections by March 9th. [HERE IS THE LINK TO THE HSLS 2020 APPLICATION.](#)

Acceptance to the 2020 Hispanic Student Leadership summit includes financial sponsorship for travel and accommodations. Sponsorship includes a round-trip flight to Austin, Texas (from within the US and Puerto Rico), Lyft credits for ground transportation to and from the airport and the hotel, arranged hotel accommodations from April 16th - 19th (3 nights), and all meals.

We hope you are as excited about this opportunity as we are! If you have any questions, please do not hesitate to reach out to us at [hsls2020@google.com](mailto:hsls2020@google.com).
Dynamic Talks at Citi

Details

Join us at the next event of our technical meetup series, "Dynamic Talks," in Tampa at CitiBank happening Thursday, March 5, 2020 5:00 PM to 9:00 PM!

Dynamic Talks is an ongoing meetup series featuring technical talks from some of the leading experts in tech in major cities around the US. Enjoy talks about the most innovative subjects in AI, ML, data analytics, voice platforms, the Cloud, and search. Every event is free, with complimentary food and drinks.

AGENDA:

5:00pm - 5:30pm: Doors open and registration begins

5:30pm - 5:45pm: Introduction and welcoming reception

5:45pm - 6:30pm: First talk by Eugene Steinberg on "GCP for deep learning-based search and recommendation systems"

6:30pm - 6:45pm: Networking break, food is served

6:45pm - 7:00pm: Second talk by Dan Costanza on "Integrating data science into a relationship driven business"

7:00pm - 7:15pm: Networking break

7:15pm - 8:00pm: Third talk by Maxim Shishkarev on "Best practices for enterprise-grade CICD implementation in the cloud"

8:00pm - 8:15pm: Networking break

8:15pm - 8:30pm: Fourth talk by Michael Rootman on "Big and small data processing in banking and capital markets"

8:30pm - 9:00pm: Closing remarks and networking

Deadline: RVSP on Meetup by February 28th.

To read about the speakers and RSVP please visit: https://www.meetup.com/Dynamic-Talks-Tampa/events/268696277/
Software/Firmware Engineer Formal Requirements:

Job Description
The Software/Firmware Design Engineer is a self-motivated engineer who designs, develops and verifies software solutions that reside on embedded processors. This includes defining software design principles, writing code in the supported language and understanding the firmware functionality of 8, 16, 32-bit microprocessors and microcontrollers. The engineer is expected to build high-quality, innovative and fully functional software which includes requirements, architecture, detailed design unit and integration test. The work environment can be either independent or within a team and the engineer understands and uses software design processes during their daily tasks.

Required:
- Firmware development on 8, 16, 32 embedded processors
- Strong software development in C, C++
- Object orientated design
- Familiar with State Machine

Nice to Have:
- State Machine Model development
- Automated Unit test
- Python
- Software in a regulated environment experience
- Agile Methodology
- State machine development model driven development

Additional Job Description:
- Follow Medical Device Design processes
- Work with manager and/or PM to provide information that will aid in the initial estimation process (RFI/RFQ)
- Write clear and concise documentation related to the work performed.
- Develop and run effective software verification tests to ensure product stability and performance.
- Identify, document, prioritize, and resolve software issues on a software unit level.
- Provide input to identify and mitigate technical project risks.
- Perform tasks and work items at a sub-project level with limited support from team lead or PM.
- Work with cross-functional teams to assure project success.
- Follow department processes and procedures.
- Comply with company security and safety policies.
- May perform other duties and responsibilities as assigned.

If you are interested please contact wmoreno@usf.edu
New Product Development – Electronic and Software Engineers (Entry Level)

- Soldering small surface mount parts & wire harness
- Analog & digital circuit troubleshooting
- SMT (0403 package and .5 pitch) & PTH soldering
- RMA analysis, reporting and repair
- Prototyping
- PCB rework

- Python, C, C#, VB, VBA, Pascal, LabVIEW
- Android/ Mobile App
- USB and driver level communication protocol

www.StellarNet.us Please send resume to Jpierce@StellarNet.us
TITLE: Computer Science/Engineer Internship  
LOCATION: Tampa, FL, Working Remotely  
STATUS: 10-20 Hours / Week  
EDUCATION: Junior or Senior Level (3.25 GPA or Higher)  
COMPENSATION: Unpaid  

Start Date: 10-week commitment from May 27, 2020 through July 31, 2020.  

DESCRIPTION:  
TableDot is a revolutionary food tech startup headquartered in Tampa, FL and we are looking for a computer science or software engineer intern to help improve appearance, flow, and overall functionality of our company’s website and mobile platforms. Ideal candidates will have command of best practices and trends in technology innovation, enjoy being creative, and understand how to both build and maintain quality to a digital audience.  

"TableDot is a revolutionary on-demand private chef platform that allows people to customize a menu and book a dinner party within minutes. The chef will shop, cook and clean up before leaving so that you and your guests can once again enjoy the dinner table, the original social network."

RESPONSIBILITIES:  
- Implement code fixes under the direction of software architects and senior developers  
- Develop well-tuned code that may be included as part of our next software release  
- Contribute to our suite of automated tests and testing infrastructure  
- Implement cyber safety protocols  
- General Web and Mobile Software development  
- Software quality assurance  
- Software troubleshooting and testing  
- Other technical-related tasks  
- Communicate regularly with the team  

QUALIFICATIONS:  
- Enrolled in or will be enrolled in Junior year or higher at a college/university or any year at a graduate school  
- Working towards a BS or MS in Computer Science, Electrical Engineering or related  
- Must be extremely detail oriented with strong attention to follow-through  
- Exceptional time management skills  
- Understanding of object-oriented programming/design  
- Working knowledge of HTML and web technologies  
- Ability to quickly learn new technologies such as PHP, React  
- Strong analytical and problem-solving skills  
- Be a self-starter and possess strong sense of self-motivation  
- Minimum 3.25 GPA  

SUPERVISOR: send cover letter and resume to Katherine Allen, Owner, Phone 813-784-2121  
Email Katherine@tabledot.com