Dear CSE Students:

Welcome to the first newsletter of the Fall 2020 semester.

Message from the UG Advisor:
Please monitor the USF website for updates on Covid-19 and hurricane season. Computer Engineering students—remember that CMOS VLSI and lab are offered in fall only. Computer System Design and lab are offered in spring only. If you are planning to graduate in spring 2021, you will need to submit a graduation checklist. We will send out information and reminders when we are ready to begin receiving and processing those checklists. A graduation checklist is necessary to register for CIS 4250, CIS 4253 and CIS 4935. Have a safe and productive fall.

Message from the Grad Program Assistant:
- For TA/RA: If you have not submitted your Tuition Waiver form, please do so now. You MUST be full-time (9 hours) unless you are graduating. An email with more details went out a couple of weeks ago.
- If you are graduating in Fall 2020, the deadline to apply in OASIS is Monday, September 21. You also need to make sure I have your FINAL plan of work and your graduation checklist. An email with details went out a couple of weeks ago.
- Graduating students doing thesis/dissertation, please be mindful of the deadlines and contact me as soon as you have a date/time planned for your defense, or if you have any questions. https://www.usf.edu/engineering/cse/graduate/thesis-dissertation-process.aspx
- Have a great semester!

Attached are announcements for the following (please note that this listing does not imply University or Department endorsement):
- USF Chief Master Sergeant Roundy Last Mile Scholarship
- Carnegie Mellon Postdoctoral Positions open
- Pearl Hacks Campus Ambassadors
- CAE Virtual Career Fair
- Humana Tech Internship Opportunity
- DV SAFE VP of Technology Job Opportunity
- Tiktok Threat Analyst Job Opportunity

Regards,

Ken Christensen
Professor and Associate Chair of UG Affairs
Chief Master Sergeant Roundy Last Mile Scholarship

The Last Mile Scholarships were created to support USF student veterans of all branches who have exhausted their VA Post 9/11 education benefits and require additional funding to complete their degree at USF.

The Chief Master Sergeant Roundy Scholarship is a $500 scholarship available to full-time student veterans who are first-generation college students enrolled in an engineering program at the USF.

The scholarship is administered by USF Foundation and the USF alumni association with assistance from the Office of Veteran Success.

Do You Need Help Crossing the Finish Line...

Scholarship Facts:
• $500 award to students
• Must be a first-generation college student
• Must be enrolled in an engineering program
• Must have exhausted GI Bill benefits

Apply for the Last Mile Scholarship Today: https://bit.ly/2YxGY9k
Carnegie Mellon Postdoctoral Positions open

**Agent-Based Modeling and social media**
The Center for Informed Democracy and Social-cybersecurity and Computational Analysis of Social and Organizational Systems at Carnegie Mellon University is looking to hire a Post-Doc. The successful applicant will work with Dr. Kathleen M. Carley and her team assessing the dynamics of disinformation spread within and across social media platforms. Disinformation will range from inaccurate images and facts, to conspiracies. This will involve processing huge data sets of social media data from multiple platforms, utilizing ORA for network analytics and the BEND tools for influence campaigns. The successful applicant will identify potential countermeasures and work to extend the Construct simulation model so that virtual experiments regarding these counter-measures can be run. Other activities to include: validation of BEND metrics, conducting virtual experiments, writing up research results in papers for publication, attendance at and presentation in group meetings, and working with undergraduates and master's students.

To apply go to
[https://apply.interfolio.com/78302](https://apply.interfolio.com/78302)

**SNA and elections - Social media analytics and large scale network analysis using ORA**
The Center for Informed Democracy and Social-cybersecurity at Carnegie Mellon University is interested in hiring a Post-Doc. The successful applicant will work with Dr. Kathleen M. Carley and her team assessing foreign adversary activity in elections across the globe. This will involve processing huge data sets of social media data from multiple platforms, utilizing ORA for network analytics and the BEND tools for influence campaigns. Other activities to include: network analysis of influence campaigns, writing up research results in papers for publication, attendance at and presentation in group meetings, and working with undergraduates and master's students.

To apply go to
[https://apply.interfolio.com/78252](https://apply.interfolio.com/78252)
Pearl Hacks Campus Ambassadors

My name is Chel, and I am the Director of External Marketing for Pearl Hacks at UNC-Chapel Hill! Pearl Hacks is a hackathon for women and nonbinary students, and we especially cater towards first-time hackers seeking inclusive and supportive environments.

This year we’re going completely virtual and are hoping to reach a larger audience than ever beyond our campus borders!

We’d love to recruit voices from those campuses as Campus Ambassadors to assist in outreach. It’s a great marketing and networking opportunity and we’d love to have you on board!

Apply to be a Campus Ambassador with this link and connect with students across the country: https://forms.gle/kKsJc3YyFspEfypb8

Find more information about Pearl Hacks on our website here, or connect on Twitter!

Thanks for your time and attention,

--

Chel

She/Her/Hers

Director of External Marketing, Pearl Hacks 2021
CAE Virtual Career Fair

The CAE Virtual Career Fair is a great opportunity for students and alumni to connect with employers from across the country. The Career Fair will take place on September 4th, 2020, from 11 am to 3 pm CT and is only open to students and alumni from CAE institutions designated as Centers of Academic Excellence (CAE) in Cybersecurity. Students can submit their resumes in advance for employers to review prior to the event.

For more information and to register, please visit [www.caecommunity.org](http://www.caecommunity.org) or contact Amy Hysell <ahysell@caecommunity.org>.

The 4th annual CAE in Cybersecurity Virtual Career Fair, sponsored by National Cybersecurity Training and Education (NCyTE) Center and the National Science Foundation, is right around the corner! Our career fair brings together students and alumni from over 300 institutions across the Nation designated as Centers of Academic Excellence in Cybersecurity with employers offering internships, temporary, part-time, and full-time employment. This year, the CAE Virtual Career Fair will take place on September 4th, 2020, from 9am to 1pm PT.

Each year, the number of undergraduate and graduate students and alumni participating in this event continues to grow. Participants come from a variety of disciplines, including cybersecurity, security studies, computer science, engineering, math, physics, policy, and project management. Students from CAEs in Research (CAE-R), Cyber Defense Education (CAE-CDE), and Cyber Operations (CAE-CO) are invited to participate for FREE.

Students and alumni can submit resumes before the virtual career fair begins to allow employers to view resumes before the career fair. Students will also have the ability to build their profiles within the environment to ensure success. Students can participate in a series of workshops leading up to the CAE Virtual Career Fair to help them build their resume and interview skills.

For more information and to register, please visit [www.caecommunity.org](http://www.caecommunity.org).

---
Wherever you are, Humana is here for you.

Yes, even you the college student looking for an internship.

As a tech intern at Humana you’ll take on technical challenges and drive through the software development lifecycle utilizing agile methodologies. Enjoy Coding? Great, our software engineering track is for you! Don’t want to code? No worries – we’re got options in other tech realms such as networking, security, and project management!

The Good Stuff
• Competitive Hourly Pay
• Paid Housing (if internship is not virtual)
• Social Events for All Interns
• Part-Time Work Opportunity (remote from school!)

What’s in it for you?

Real World Experience
• You’ll be knee deep in our IT world, helping us to solve real-life problems that we see every day.
• Get real time feedback from hiring leaders and expert recruiters
• Experience a corporate culture and build impactful solutions that will be used by IT associates and even our IT VPs!

Networking
• Part of your experience will include daily collaboration with experienced technology professionals and some of our past tech interns.
• Meet and make friends with your fellow interns from up to 20 different schools each year.
• Attend our coffee chats with anyone and everyone from Humana’s Retail President to our CIO!

Full Time Opportunities
• We know how hard it is to search for jobs… that’s why here at Humana we provide Full Time offers to interns who have a successful completion of their internship.
• Don’t worry – if you aren’t graduating, you can still secure an offer for the following summer with us as one of our Advanced Interns.

LEARN MORE
www.linkedin.com/company/humana

Visit our careers website to apply for our 2021 internship experience.
www.humana.com/about/careers
Requisition: R-237747
DV SAFE Inc. technology was developed to help various causes such as domestic violence, policing, sexual harassment, and whistleblowing.

Mission Statement:
Our mission is to empower companies, users, and groups to capture and collect data in an encrypted cloud database to protect private information for today, tomorrow, and the future.

Open Role: VP of Technology or Interim VP of Technology; Tampa, FL

Overview:
Establish the organizational technology vision, strategies, and plans for growth and focus on maintaining and improving all technological issues within the organization. The responsibilities include building custom software solutions using modern web technologies, creating innovative solutions and collaborating with the solutions team to implement new features and plan for future client capabilities.

Responsibilities:
- Develops the organization’s strategy for using technological resources, integrations, and platforms
- Ensures technologies are used efficiently, profitably, and securely
- Evaluates, implements, and supervises new systems and infrastructure
- Development of the client’s platform (SaaS) across its full life cycle
- Maintains, develops new services/products, and oversees all technology
- Contributing to the overall architecture of the platform and its applications
- Developing functional and responsive mobile and web applications
- Developing additional workflows, algorithms, and security features
- Maintaining the quality, performance, and responsiveness of the platform
- Monitors KPIs and IT budgets to assess technological performance
- Collaborating with product managers, internal and external development resources, and other stakeholders to design, develop, and launch new features
- Engaging in all aspects of release cycles, including requirements review, work estimation, design, implementation, testing, and review
- Providing last-line application support to internal teams and external customers.
- Time will be spent developing UI/UX to Web API and everything in between.
- Time spent will depend on experience (tech you have used), but we would like to build a well-rounded team who are proficient in our dev stack: AWS Lambda, EKS, ECS, EC2, DynamoDB, Kinesis, SNS, SQS, API Gateway, CloudFormation, CloudFront, S3, and IAM services
- HTML5, Node.js/JavaScript, Docker, Kubernetes, Git, Jira, and related
Threat Analyst - Trust & Safety

We have recently established a new team at Tiktok that will be proactively searching for platform threats, including influence campaigns and coordinated inauthentic behavior. We have 2 positions open for threat analysts/researchers who have expertise in said threats. I have left the link to the job description below, as well as one via LinkedIn if some prefer that. Please share this with anyone you believe could be a fit. And please feel free to send me any questions: Max B mbaryshevtsev@gmail.com

Responsibilities

As a threat analyst/researcher on our Trust & Safety team you will work alongside multiple teams to bring and action on analysis of platform threats. You will work cross-functionally with product managers, program managers, operations, policy, and communications teams; to find gaps in current threat response processes such as detection and mitigation. You will be part of a team of global experts that not only respond to bad actors, but proactively search and identify coming threats building scalable protections to keep them out.

Core responsibilities:

- Find and remove bad actors and content by performing large scale analysis (querying and analyzing data) focused on identifying communicative and social behaviors on the platform.

- Build sustainable processes of removal, identifying signals and building models around them.

- Drive improvements and projects working closely with cross-functional partners (content policy, product management, data analytics, operations, engineering, algorithm, PR, Legal, Government Relations) to identify, assess and resolve safety-related issues dealing with elections integrity and global platform integrity.

- Influence product development and working with product engineering to implement necessary changes for effective abuse fighting.

Qualifications

- Preferred MA or PhD in Computer Science, Data Science, Econometrics, Mathematics, Information Science, Criminology, Cyber Security, or similar.

- 5+ years of experience in related field, such as Trust and Safety, Fraud, Integrity or Cyber Security.

- Strong and proven data analysis skills

- SQL

- Python or similar scripting languages

- Statistical analysis (multivariate analysis of variance, correlation/regression, etc.)

To apply: https://job.bytedance.com/en/position/detail/6865041155626731784