OLIVIA WENG

oliviaweng.com · github.com/oliviaweng

education

The University of Chicago — Chicago, IL
B.S. Computer Science · Expected, June 2020
Cumulative GPA: 3.73 / 4.00
Honors: Dean's List (2017, 2018), University Grace
Hopper Conference Scholarship Recipient (2018)

personal information

oliviaweng@uchicago.edu

work experience

Computer Systems Research Intern

The University of Chicago · Chicago, IL — Jun 2018–Present
◆ Engineer a novel hardware cache attack mitigation design that selectively obfuscates the architectural state from potential attackers to weaken the most detrimental cache side-channel attacks such that they become impractical
◆ Implement and conduct case studies on the cache attack mitigation design's security properties in Python and in the gem5 microprocessor simulator to evaluate how effectively the design prevents a system from leaking vulnerable information such as passwords and encryption/decryption keys

Software Intern

Gridless Power Corporation · Collingswood, NJ — Jun–Aug 2017
◆ Developed JavaScript server and battery-monitoring Meteor web app to respectively send and receive battery data to and from upgraded Compose.io MongoDB database of data from 200+ batteries (previously hosted locally on AWS EC2 server); increased office efficiency in inputting and monitoring data
◆ Overhauled deployment of battery-monitoring Meteor web app hosting from AWS to Meteor Galaxy for user-friendly interface; increased office ease-of-use in redeploying and monitoring status of web app

Computer Science Instructional Laboratory Tutor

The University of Chicago · Chicago, IL — Jan 2017–Present
◆ Image and monitor 50+ floor machines on-site and remotely via Ansible to install and update software and applications; tailoring machines to faculty and student needs for streamlined classes and lab sessions
◆ Provide supportive user help for application and hardware use on High Sierra macOS and Ubuntu Linux machines; enables ease of use with lab machines for over 200 daily student and faculty users

technical skills

Programming   C · Java · Python · Bash · SML · Haskell · R · HTML/CSS · LaTeX

Infrastructure   Ansible · Jenkins · Slurm Workload Manager · AWS EC2

relevant coursework

Computer Architecture · Parallel Computing · Programming Languages · Reading and Research

leadership and involvement

Computer Science Student Activities Council

Council Member · The University of Chicago (Sep 2017-Present) Collaborate with the three other computer science student organizations on campus to put together weekly Hack Nights of ~30 students to foster and grow the UChicago tech community, getting students more involved in these organizations to create a more active student body

Asynchronous Anonymous

Co-Director · The University of Chicago (Jan 2017-Present) Administer student-led tech talks for audience of ~20 students weekly to engage the UChicago undergraduate tech community in new technologies and tech opportunities on and off campus; connected ~50 students to student projects and ventures and local start-ups

ACM-W

Committee Member · The University of Chicago (Jan 2017-Present) Organize study breaks and student panels in committee of five women computer science majors weekly to bring women computer science community together and discuss diversity issues in the tech industry. Assisted in planning Computer Science department mentorship program to connect 100 students with diverse experiences and technical backgrounds; help students develop strategies for success at UChicago