

OLIVIA WENG

oliviaweng.com · github.com/oliviaweng

education

The University of Chicago — Chicago, IL
B.S. Computer Science · Expected, June 2020
Cumulative GPA: 3.75 / 4.00
Honors: University Grace Hopper Conference
Scholarship Recipient (2018), Dean's List (2017, 2018)

contact

oliviaweng@uchicago.edu

work experience

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 cryptographic keys

Gridless Power Corporation · Collingswood, NJ

Jun–Aug 2017

- ◆ Develop 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); increase office efficiency in inputting and monitoring data
- ◆ Overhaul deployment of battery-monitoring Meteor web app hosting from AWS to Meteor Galaxy for user-friendly interface; increase office ease-of-use in redeploying and monitoring status of web app

The University of Chicago · Chicago, IL

Jan 2017–Present

- ◆ Image and monitor 50+ floor machines on-site and remotely via Ansible in a team of three 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

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

Ansible · Jenkins · AWS EC2

relevant coursework

Computer Architecture · Parallel Computing · Programming Languages · Research with Professor Yanjing Li on hardware security

leadership and involvement

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

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; connect ~50 students to student projects and ventures and local start-ups

Board 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. Assist 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

Computer Systems
Research Intern

Software Intern

Computer Science
Instructional
Laboratory Tutor

Programming
Infrastructure

Computer Science
Student Activities
Council

Asynchronous
Anonymous

ACM-W