

Olivia Weng

email: oliviaweng@uchicago.edu

phone: (609) 751 1533

web: <http://oliviaweng.com>

Education

The University of Chicago

BS, Computer Science *spec.* Computer Systems

2016 - 2020 (Expected)

Advisor: Yanjing Li

Employment

Braintree, Software Engineer Intern

Jun 2019 - Aug 2019

- Reduce company spending on AWS building two Lambda functions scheduled to delete costly stale EBS volumes and AMIBake disk snapshots every day
- Automate management of 50 AWS user groups for 400 software developers in Terraform and Go

The University of Chicago, Research Assistant

Jun 2018 - Sep 2018

- Engineer a novel hardware cache design that defends against cache attacks by obscuring the microarchitectural state through cache compression
- Conduct security evaluation on cache design using Python and Intel Pin to determine how effectively the design prevents attacks

Gridless Power Corporation, Software Intern

Jun 2017 - Aug 2017

- Upgraded database from local AWS EC2 host to Compose.io MongoDB database of 200+ batteries' data to streamline inputting and monitoring
- Overhauled deployment of battery-monitoring Meteor web app hosting from AWS to Meteor Galaxy for faster redeployment and monitoring

The University of Chicago, Computer Lab Tutor

Jan 2017 - Present

- Lead team of three to revamp computer lab security standards by integrating the 1PASSWORD password manager and SSH keys as the only points of access to the lab servers
- Image and monitor 50+ floor machines on-site and remotely via Ansible and Jenkins in a team of four to install and update software and applications

Technical Reports

Olivia Weng and Andrew A. Chien. Evaluating Achievable Latency and Cost: SSD Latency Predictors (MittOS Model Inference), *Dept. of Computer Science, The University of Chicago*. October 2019. https://newtraell.cs.uchicago.edu/files/tr_additional/TR-2019-17.pdf. (Submitted to HiPEAC AccML 2020 Workshop)

Awards

Grace Hopper Conference Scholarship, The University of Chicago

2018

Dean's List, The University of Chicago

2017, 2018, 2019

Teaching

CMSC 15200: Introduction to Computer Science II – *Grader*

Summer 2018, Winter 2019

CMSC 22200: Computer Architecture – *Grader*

Spring 2018

CMSC 16100: Honors Intro to Computer Science – *Grader*

Autumn 2017

Service

- Society of Women Engineers' Girls' Day in STEM**, Volunteer May 2019
- Created a workshop that taught basic cryptography topics, in which 50 middle and high school girls participated
 - Facilitated a discussion on diversity and what it means to be a woman in STEM among a group of 7 middle school girls
- compileHer Tech Capstone 2019**, Volunteer Apr 2019
- Led a group of 12 Chicago middle school girls through interactive workshops that introduced a select computer science topic, guiding them in completing the activities
- ACM-W@UChicago Mentorship Program**, Undergraduate Mentor May 2018 - Present
- Guide Neha (3rd-year CS major) through how to start research and secure a research advisor, pointing her to various professors in the department with whom she could potentially work—she currently works with Professor Shan Lu
 - Support and check in with Melanie (3rd-year CS major) as she goes through the internship recruiting process and the CS major at UChicago, reviewing her resume and helping her select classes
- CS Student Activities Council**, Student Representative Sep 2017 - Present
- Secure funding to support four computer science student organizations on campus to host events that foster collaboration and grow the undergraduate tech community at The University of Chicago
- Asynchronous Anonymous**, Director Jan 2017 - Present
- Coordinate weekly tech talks given by a diverse set of undergraduates, elevating minority speakers, to build an inclusive tech community at The University of Chicago, engaging them with new technologies
- ACM-W@UChicago**, Board Member Jan 2017 - Jun 2018
- Organized study breaks and student panels in committee of five women computer science majors weekly to bring women and minority computer science community together and discuss diversity issues in the tech industry

Extra-curricular Activities

- University Double Woodwind Quintet**, French horn player Apr 2018 - Jun 2018
- University Symphony Orchestra**, French horn player Oct 2017 - Jun 2018
- University Chamber Orchestra**, French horn player Oct 2016 - Jun 2017
- Taiwanese-American Student Association** Oct 2016 - Present
- Events chair, Family head, Advisory board