Olivia Weng

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Education

University of California, San Diego
PHD *(In progress)*, Computer Science and Engineering   2020 - Present
Advisor: Ryan Kastner

The University of Chicago
BS, Computer Science *spec.* Computer Systems   2016 - 2020
Advisor: Yanjing Li

Publications

1. **Olivia Weng** and Andrew A. Chien. Evaluating Achievable Latency and Cost: SSD Latency Predictors. In *Proceedings of the Workshop on Accelerated Machine Learning, AccML@HiPEAC: High Performance Embedded Architectures and Compilers, 15th International Conference.* January, 2020.

Employment

Braintree, Software Engineer Intern   Jun 2019 - Aug 2019
· Reduced company spending on AWS by building two Lambda functions scheduled to delete costly stale EBS volumes and AMIBake disk snapshots every day
· Automated previously manual management of 50 AWS user groups for 400 software developers in Terraform and Go

The University of Chicago, Research Assistant   Jun 2018 - Sep 2018
· Designed a novel hardware cache that defends against cache attacks by obscuring the architectural state through cache compression
· Conducted a security evaluation on the cache design using Python and Intel Pin to determine the design was indeed secure against last-level cache attacks

Gridless Power Corporation, Software Intern   Jun 2017 - Aug 2017
· Upgraded database from local AWS EC2 host to Compose.io MongoDB database of 200+ remote batteries' data to streamline the data inputting and monitoring process
· 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 - Jun 2020
· Led 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
· Imaged and monitored 50+ floor machines on-site and remotely via Ansible and Jenkins in a team of four to install and update software and applications

Awards

Jacobs School of Engineering Fellowship, University of California, San Diego	2020 - 2022
Kunzel Powell Fellowship, University of California, San Diego	2020 - 2021
Dean's Fund for Undergraduate Research, The University of Chicago	2020
Dean's List, The University of Chicago	2017, 2018, 2019
Grace Hopper Conference Scholarship, The University of Chicago	2018

Teaching

CMSC 15400: Introduction to Computer Systems – *Grader*	Spring 2020
CMSC 15200: Introduction to Computer Science II – *Grader*	Summer 2018, Winter 2019
CMSC 22200: Computer Architecture – *Grader*	Spring 2018
CMSC 16100: Honors Introduction to Computer Science I – *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 local Chicago middle school girls

compileHer Tech Capstone 2019, Volunteer — Apr 2019
- Led a group of 12 local Chicago middle school girls through interactive workshops that introduced select computer science topics, guiding them through completing each activity

ACM-W@UChicago Mentorship Program, Undergraduate Mentor — May 2018 - Jun 2020
- Guided Neha 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 worked with Professor Shan Lu
- Supported and checked in with Melanie as she went 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 - Jun 2020
- Secured funding to support four computer science student organizations on campus to host events that foster collaboration and grow the undergraduate tech community at UChicago

Asynchronous Anonymous, Director — Jan 2017 - Jun 2020
- Coordinated weekly tech talks given by a diverse set of undergraduates, elevating minority speakers, to build an inclusive tech community at UChicago, engaging students 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 Theater, Actor	Jan 2020 - Jun 2020
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 - Jun 2020
Events chair, Family head, Advisory board	