

# JAMIE G. LIU

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## EDUCATION

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### University of California, Los Angeles

Los Angeles, CA

Bachelor of Science, Computer Science GPA: 3.78/4.00

Sep 2017 – Jun 2021

**Coursework:** Algorithms and Complexity · Artificial Intelligence · Computer Architecture · Network Fundamentals · Operating Systems · Programming Languages

## PROJECTS

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### Passworks

*React.js, Material-UI*

An educational module to teach students about the importance of password security.

- Lead developer for collaboration between ACM Teach LA, ACM Cyber, and CityLab at UCLA
- Implemented an interactive lesson structure with an animated password guesser
- Implemented fluid transitions between lesson contents using Material-UI components

### Teach LA Code Editor

*React.js, Redux, Node.js, Firebase*

A web IDE made for K–12 students learning Python, HTML, and Processing.

- Added account management features for users to change their display name and profile image
- Implemented a view-only mode for programs, allowing them to be runnable but not editable
- Implemented feature allowing logged-in users to fork other people's programs
- Refactored code to improve overall app structure for future functionality

### HOTH Website

*Gatsby, Material-UI*

The website for UCLA's premier beginner-friendly hackathon, Hack on the Hill (HOTH).

- Ramp up development by setting up a GitHub Actions-based CI and a Netlify-based deployment workflow
- Developed responsive homepage components using Material-UI
- Conduct code reviews with other developers

## EXPERIENCE

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### UCLA Department of Computer Science – Learning Assistant

Apr 2019 –

- Collaborated with instructors to create course materials and discuss course plans
- Instructed students during office hours and discussion sections
- Designed and led workshops to help students with course concepts and projects
- Taught students taking Computer Organization (CS 33) and Software Construction Projects (CS 97), an experimental course

### UCLA Department of Electrical and Computer Engineering – Mentor

Sep 2019 – Dec 2019

- Taught students in Introduction to Electrical Engineering (ECE 3) how to use lab equipment
- Advised students on weekly labs and the quarter-long line-following car project

### UCLA Social Sciences Computing – Support Consultant

Oct 2019 –

- Provided phone, email, and on-site IT support for all departments in the Social Sciences Computing network

## STUDENT ORGANIZATIONS

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### ACM @ UCLA Teach LA – Web Developer & Tutor

Sep 2018 –

- Our mission is to empower K-12 students in the LA area with the power of computer science
- My responsibilities include developing educational tools and teaching students Python

### ACM @ UCLA Hack – Officer

Dec 2019 –

- Our mission is to empower UCLA students to influence their world through code
- My responsibilities include planning events, developing curriculum, and teaching/mentoring at workshops

## SKILLS

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Languages: C/C++, Python, JavaScript

Web Dev: HTML, CSS, Node.js, React.js, Gatsby, Redux, Firebase