

# 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*

A collection of educational modules to teach students about the importance of password security.

- Led the development of an interactive lesson structure with an animated brute-force password guesser
- Developed a declarative framework for creating lesson modules, making them easily extensible
- Implemented a custom React.js router with fluid transitions between lesson content

### Teach LA Code Editor

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

A web IDE made for K-12 students learning Python, HTML, and Processing.js at several LA-area middle schools.

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

### Hack on the Hill Website

*Gatsby, Material-UI, GraphQL*

The website for UCLA's premier beginner-friendly hackathon, hosting 200+ students annually.

- Ramped up development by setting up a GitHub Actions and Netlify-based deployment workflow
- Developed a number of responsive pages using Material-UI components
- Iterated on website design by collaborating with external designers

## EXPERIENCE

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### UCLA Department of Computer Science – Learning Assistant & Logistics Head

Apr 2019 –

- Taught 150+ students taking Computer Organization (CS 33) and Software Construction Projects (CS 97)
- Collaborated with instructors to create course materials and discuss course plans
- Assisted students during office hours and discussion sections
- Designed and led workshops on such topics as buffer overflow attacks, Git, React.js, and Python

### UCLA Social Sciences Computing – Support Consultant

Oct 2019 –

- Provided phone, email, and on-site IT support for all Social Science departments

## STUDENT ORGANIZATIONS

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### ACM Teach LA – Lead Developer

Sep 2018 –

- Mission: empowering K-12 students in the LA area with the power of computer science
- Developed educational tools including Passworks and the Code Editor

### ACM Hack – Committee Officer

Dec 2019 –

- Mission: empowering UCLA students to influence their world through code
- Planned various educational events and mentored at workshops

## AWARDS AND HONORS

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### Grace Hopper Celebration Sponsorship, UCLA

Jul 2020

### Upsilon Pi Epsilon

Dec 2019

## SKILLS

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C/C++ · Python · JavaScript · HTML/CSS  
Node.js · React.js · Gatsby · Firebase · GitHub Actions