Jamie G. Liu

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Education

University of California, Los Angeles Los Angeles, CA
Bachelor of Science, Computer Science *GPA: 3.80/4.00* Sep 2017 – Jun 2021
Coursework: Algorithms and Complexity · Artificial Intelligence · Computer Architecture · Network Fundamentals · Operating Systems · Programming Languages

Projects

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

UCLA Department of Computer Science – Learning Assistant & Logistics Head Apr 2019 –
- Taught 200+ 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

ACM Teach LA – Lead Developer Sep 2018 –
- Developed educational tools including Passworks and the Teach LA Code Editor

ACM Hack – Committee Officer Dec 2019 –
- Directing the Bloom Fellowship for beginner web developers and designers
- Taught and mentored at technical workshops on web/mobile development topics

Awards and Honors

Grace Hopper Celebration Sponsorship, UCLA Jul 2020
Upsilon Pi Epsilon Dec 2019

Skills

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