

# Haoyuan Liu

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## Education

**University of California, Berkeley**

08/2018 ~ 05/2022

*B.A. Computer Science, GPA 4.00*

Relevant Coursework: SICP, Data Structures, Machine Structures, Algorithms, Computer Security, Programming Languages and Compilers, Database Systems, Artificial Intelligence, Machine Learning, Deep Neural Networks, Parallel Programming, Computer Graphics, Computer Architecture

## Skills

- Experience with Python, Java, TypeScript, JavaScript, SQL, GraphQL, C, C#, HTML&CSS
- Familiarity with frontend frameworks including React, Vue.js, and Flutter

## Experience

**Software Engineer Intern**, DoorDash

05/2021 ~ 08/2021

- Built a new order tracking page for DoorDash Storefront with React and Apollo GraphQL
- Worked across teams to implement features, bug fixes, and unit / E2E tests spanning multiple codebases including React frontend, Node.js backend-for-frontend, and Kotlin microservices

**Undergraduate Student Researcher**, UC Berkeley EECS Department

09/2020 ~

- Designed a novel domain-specific language for graph analysis in computer security and implemented its interpreter with ANTLR, Java, and Postgres

**Open Source Developer**, Fluent Reader

05/2020 ~

- Developed [Fluent Reader](#), a desktop RSS reader built with Electron, React, and TypeScript with over 50,000 downloads from Mac App Store, Microsoft Store, and GitHub
- Built [a mobile client app](#) with Flutter and published to App Store and Google Play
- Maintained the [open source project](#) of the apps on GitHub with over 2,000 stars combined

**Project Developer**, The Daily Californian

02/2019 ~ 05/2020

- Overhauled Daily Cal's [Weekender](#) and Projects sections with single-page applications built using Vue.js and WordPress REST API
- Worked on data-driven journalistic projects involving data collection, cleaning, and analysis with Pandas, matplotlib, and D3.js

**Testing Engineer**, BEAR Center, UC Berkeley Graduate School of Education

10 ~ 12/2019

- Performed automated E2E and manual QA testing with RSpec, Postman, and JMeter for educational software that serves CA and IL departments of education
- Wrote scripts in Python that facilitated the development and testing process

**Full Stack Developer**, Nirvana News

10/2016 ~ 02/2018

- Led the front-end development for the [website](#) of the student-run news agency in high school and implemented a WYSIWYG article editor with image upload
- Developed and published a [Windows 10 UWP app](#) for news reading

## Programming Projects

[Online Voting Platform for Student Council](#)

- An open source web app built using Angular and ASP.NET for efficient and open real-time voting

[Splatoon 2D](#)

- A 2D adaptation of the co-op mode from Nintendo's Splatoon 2 created with Pygame
- Supports local multiplayer with multiple controller inputs

[The Bookstand](#)

- A web app that allows students to post, browse, and trade used books online with the ease of just scanning the barcodes developed with ASP.NET, Bootstrap, and jQuery