

Haoyuan Liu
Berkeley, CA | hy.liu@berkeley.edu | <https://hyliu.me>

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, Database Systems, Artificial Intelligence, Data Science, Discrete Math and Probability

Skills

- Experience with Python, Java, TypeScript, JavaScript, SQL, php, C#, C, HTML&CSS
- Familiarity with web frameworks including React, Vue, and Angular

Experience

Open Source Developer, Fluent Reader

05/2020-

- Developed [Fluent Reader](#), a desktop RSS reader built with Electron, React, and TypeScript with thousands of downloads from Mac App Store, Microsoft Store, and GitHub
- Core maintainer of the [open source project](#) with over 300 stars on GitHub

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 10/2019-12/2019

- Performed automated 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 facilitate 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, including a WYSIWYG article editor with image upload
- Developed and published a [Windows 10 UWP app](#) for news reading

Programming Projects

End-to-End Encrypted File Sharing System

- Designed and implemented a secure file sharing system based on public storage with Go
- Supports hierarchical sharing / revocation and efficient file append

Simple Database Management System

- A basic DMBS developed using Java as a course project
- Features include indexing, query optimization, fine-grained locking, and ARIES recovery

[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