

Alex Lau

alexlauluo@berkeley.edu | (787) 669-8710 | Berkeley, CA | alexlauluo.github.io/ | linkedin.com/in/alex-lau-894bab206/

EDUCATION

University of California, Berkeley

B.A. Computer Science, B.A. Philosophy GPA: 3.79

Expected Graduation: 5/18/2024

EXPERIENCE

Amazon - Software Development Engineer Intern

5/2022 - 8/2022

- Created CLI tool for Experience Generator team from ideation and design document to fully functional and production ready tool
- Independently managed original package in Node.js and maintaining npm libraries
- Leveraged TypeScript to develop a mock API that utilized file I/O operations, allowing for comprehensive API call testing without the need for external dependencies or costly resources
- Practiced standard software engineering practices with code reviews, extensive unit and integration tests, in a Scrum/Agile development team environment

Juni Learning - Instructor

6/2020 - 9/2020

- Instructed elementary to high school aged students in one-on-one hour-long private sessions, teaching basic programming fundamentals and data structures in Python and Java
- Reported every session regarding the lesson and progress to parents, managers, and students

Berkeley Student Cooperative - Habitability Coordinator

1/2022 - Current

- Schedule and conduct unit-level habitability training for all members
- Create and deliver a mandatory unit-specific habitability training workshop
- Conduct regular habitability self-inspections and check house for habitability issues and areas of improvement
- Document completion of habitability correction workshift hours assessed after failed inspection
- Assist with the design and reorganization of common areas to improve habitability, in conjunction with other unit-level managers

RELEVANT COURSEWORK

• Data Structures • UI Development • AI • Discrete Math/Probability • Techniques of Data Science

PROGRAMMING LANGUAGES

• Java • C# • JavaScript/Typescript • SQL • Python • HTML • CSS • RISC-V (Assembly) • C • Ruby • Go

FRAMEWORKS/TECHNOLOGIES/LIBRARIES

• Git/GitHub • Ruby on Rails • Jupyter • Unity • Websocket API • jQuery • npm • Bootstrap • Node.js • Jest • Express.js

PROJECTS

Hungry Hungry Theo

- Unity 2D project created in collaboration with other artists, programmers, and sound designers
- Lead, designed and implemented majority of C# scripts, core gameplay loops, and mechanics
- Itch.io Link: <https://daidiimon.itch.io/hungry-hungry-theo>
- GitHub Link: <https://github.com/alexlauluo/HungryHungryTheo>

Secure File Sharing System

- Designed and implemented an End-to-End secure file-sharing server in Golang
- Applied IND-CPA encryption algorithms, MACs, and digital signatures in guaranteeing data integrity, authenticity, and confidentiality

Papyrus

- As team of 5, created story-driven web app designed for language learning and story-telling
- Written using Django and MySQL to store and retrieve user-created stories and styled with Bootstrap
- Project Report: <https://bit.ly/3k5raok>
- GitHub Link: <https://github.com/NicholasJJ/cs160finalfrontend>