

Allen Luo

luoax@uci.edu | (650) 660-0175 | allenxluo.com | github.com/allenxluo | linkedin.com/in/allenxluo

EDUCATION:

University of California, Irvine

September 2019 - June 2022 (Expected)

- B.S. Computer Science | GPA: 3.90
 - Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Programming in C++, Discrete Mathematics, Linear Algebra
-

RELEVANT EXPERIENCE:

Software Engineer Intern | OffWeGo

February 2021 - Present

- Developing backend logic and a web admin dashboard. Working with Django and PostgreSQL

Backend Developer | Commit the Change

October 2020 - Present

- Implementing user authentication system with AWS Cognito to support registration, login, and account recovery functionality
- Designing and developing database with MongoDB to manage users, posts, and comments; creating REST API to store and request data

Android Developer | WeHOPE

June 2018 - August 2018

- Deployed Kotlin Android application to track the location of the organization's shower trucks throughout the day
 - Accessed information from the trucks' schedule with Google Calendar API and integrated Google Maps into app to display directions
-

SELECTED PROJECTS:

Player Statistics Visualizer

September 2020

- Engineered React.js/Node.js web application to display League of Legends statistics and player analysis to help users improve performance
- Devised JavaScript script using Kayn library to fetch data from Riot Games' API and analyze player tendencies and efficiency

Gitlet

July 2020

- Programmed version-control system that mimics features of the system Git, including add, commit, checkout, log, branch, and merge functions
- Deployed cryptographic hash function SHA-1 to uniquely identify internal objects and designed tree-like data structure to track commits; serialized data to store information over multiple runs

Bear Maps

August 2020

- Developed web mapping application to visualize the shortest route between two points; added features such as location search, autocomplete, and dragging/zooming
 - Implemented k-d tree and min-heap priority queue paired with the A* algorithm to store locations and determine the shortest path
-

LEADERSHIP:

Lab Tutor | UCI School of Information and Computer Sciences

September 2020 - December 2020

- Hosted biweekly tutoring sessions in C++ course to support students on lab/project assignments and enrich them with course material and programming concepts

Instructor | StreetCode Academy

June 2019 - August 2019

- Taught Scratch and basic computer science principles by holding weekly lectures and fostered young students' interest in programming
-

SKILLS:

Programming Languages: Python, Java, C++, JavaScript, CSS, HTML

Technologies and Frameworks: Node.js, React.js, Express.js, Git, MongoDB, AWS Cognito