

Alan Chang

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🎓 Education

University of California, Irvine

Bachelor of Science (B.S.) in Computer Science

September 2020 - June 2024

Regents' Scholar & Dean's Honors List (Fall 2020 – Present) - GPA: 3.95

Relevant Coursework

Data Structures & Algorithms, Low-Level Computer Organization & Systems Design, Databases & Data Management, Software Testing, Artificial Intelligence, Machine Learning & Data Mining, Human-Computer Interaction, Advanced Concepts in Programming Languages

{ } Technical Skills

Languages

Python, JavaScript, Java, TypeScript, SQL, C, C++, Go, MIPS Assembly, Lisp, HTML/CSS

Frameworks & Libraries

React, Express.js, Node.js, Redux, Flask, Framer Motion, MySQL, PostgreSQL, MongoDB

Other

Git, AWS (S3, RDS, EC2, Lambda, APIGateway, AppConfig, CloudFormation), Nginx, Bash, Linux

📁 Experience

Amazon

Software Development Engineer Intern - Seattle, WA

June 2022 - September 2022

Returning in Summer 2023

Constructed an internal web tool with dynamically configurable form fields, and associated backend service with schema validation for customized data visualization as part of the AWS Cost Explorer team.

Technologies used: TypeScript, React, Python/Pytest, AWS (Lambda, API Gateway, AppConfig, CloudFormation, CloudWatch)

Commit the Change @ UCI

Multiple Roles - Irvine, CA

Technical Director

June 2022 - Present

Planning and executing the construction of 5 pro bono, large-scale, and customized software projects for nonprofit organizations by UCI student developers during the 2022-23 school year, with expected outcomes of 1,000s in nonprofit labor hours and \$10,000s+ in funds saved.

- Redesigned [club website](#) to integrate new design language and Framer Motion animations for a smoother desktop and mobile experience, generating 10,000+ page visits on Google Analytics since redesign as of August 2022.
- Overseeing implementation of new and existing tech stacks (React, Express, Nodejs, SQL, noSQL, & more) by technical leads and ensure that projects stay on track to be delivered per 1-year timelines.
- Directing the migration of internal project deployments to public-facing cloud platforms (AWS, DigitalOcean, and others) as part of project handoff process to nonprofit partners.

📁 Projects

NitroBot

Python, SQLite

2018 - 2019

- Developed a Discord chatbot to fetch game data on demand from the online game Nitro Type and link verified player identities & associated performance statistics (such as words per minute, game score per race) to their Discord profiles.
- Stored user data for 1500+ players and utilized Discord API to offer chatting incentives for interacting with other community users and NitroBot.

Moodacado

React, Express.js, Flask, PostgreSQL

March 2021

- Designed a Spotify mood tracking app at LA Hacks 2021, using recent listening activity fetched via Spotify authentication flow.
- Trained a machine learning model deployed in Flask to recognize mood descriptors of 2,000+ songs, in order to classify the emotions of users' recently played songs.
- Planned, led, and implemented frontend and backend for a friend system functionality allowing users to friend each other using Spotify IDs and see recently played songs and moods.