

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, Machine Learning & Data Mining, Probabilistic & Deterministic Graphical Models, Human-Computer Interaction, Advanced Concepts in Programming Languages

{ } Technical Skills

Languages

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

Frameworks & Libraries

React, Express.js, Node.js, Redux, Flask, SK-learn, Numpy, Framer Motion, MySQL, PostgreSQL, MongoDB, Couchbase, Apache Spark, Neo4j, Cassandra

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 Summer 2023

Constructed a dynamic data schema with automatic multi-point validation and corresponding full-stack configuration system 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

Technical Director - Irvine, CA

June 2022 - June 2023

Planned and executed 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 15,000+ page visits on Google Analytics since redesign as of August 2022 (+89% year-over-year increase).
- Facilitated implementation of new and existing tech stacks (React, Express, Nodejs, SQL, noSQL, & more) by technical leads and held projects accountable to 1-year delivery timelines through extensive trajectory & mitigation planning.
- Directed 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

Hourglass

React Native, Flask, CockroachDB, scikit-learn, Google Calendar/OAuth2

March 2023

- Created a mobile application for scheduling user tasks within their desired time ranges, using a k-nearest neighbors algorithm to recognize scheduling preferences and recommend better schedules for users.
- Implemented the OAuth2 login flow and interfaced with the Google Calendar API for users to import events from their personal Google calendars and export scheduled tasks from the app back to Google Calendar.

Moodacado

React, Express.js, scikit-learn, 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.