

Education

California State University, Fullerton

August 2020 - May 2023

Bachelor of Science in Computer Science, Minor in Mathematics

Experience

Software Development Engineer Intern

May 2022 - August 2022

Amazon

- Develop internal tooling with **Python** that integrates with the **ETL Pipeline**, enabling the Customer Interests team to efficiently aggregate and convert thousands of binary labeling data into high confidence datasets to train and benchmark the performance of their machine learning models and recommendation algorithms, serving more relevant product recommendations to Amazon shoppers
- Create an **AWS CDK** application in **TypeScript** to programmatically provision and configure resources, including **AWS Lambda** functions, **DynamoDB** databases, and **IAM** users to distribute read and write permissions
- Implement unit and integration tests in **Pytest** with 100% branch and statement coverage where applicable

Frontend Developer

September 2021 - February 2022

California State University, Fullerton

- Spearheaded the creation of a mobile-responsive frontend using **React (Next.js)** for TuffyHacks, a student-run, MLH-sponsored hackathon, featuring an impactful landing page that reached and engaged a global audience of thousands of students and a dashboard that facilitated team formation and showcased real-time event updates and announcements
- Architected backend infrastructure, leveraging **AWS Lambda** functions and a **PostgreSQL** database, enabling hackers to effortlessly establish and join teams through personalized invite links, achieving exceptional performance by ensuring 100% uptime and minimal latency, amidst peak traffic from hundreds of users
- Collaborated closely with the design team to establish a consistent design language and deliver a user-centric interface, optimizing the user experience and enhancing overall user experience

Mobile and Backend Engineer Intern

June 2020 - September 2020

Twiiine

- Spearheaded the development of the Minimum Viable Product (MVP) for a date and hangout planning mobile application using the **Flutter** framework
- Designed and implemented key app features, including the planning and user profile interfaces, incorporating real-time updates for request acceptances and profile changes
- Orchestrated a seamless user experience by crafting a secure and efficient login and signup flow, integrating **OpenID** and **OAuth** protocols for streamlined authentication via Google, Facebook, and Email
- Implement **REST API** endpoints to enable users to schedule hangouts and extend invitations to fellow users seamlessly

Projects and Open Source

SWEify *JavaScript, Python, FastAPI, Scrapy, Next.js, React, TailwindCSS*

- Aggregates data from multiple job boards and curates a list of Software Engineering positions for entry level and intern job seekers
- Develop **ETL pipeline** using **Scrapy** and **BeautifulSoup** scrape and **Pandas** to transform data from job boards into a **SQL** database
- Display data in a user-friendly frontend with **React** and **Tailwind**, allowing users to filter jobs based on location, salary, and more

Twofivefour *Svelte, Typescript, TailwindCSS, OpenAI*

- An **AI**-powered coding assistant to help developers understand and document their code by explaining code snippets, translating between programming languages, documenting functions, and calculating time complexity of functions
- Develop a user-friendly frontend with **Svelte** and **Tailwind** that allows users to easily interact with the AI
- Integrate with the **OpenAI** LLM APIs to generate code insights and translate between programming languages
- Establish CI/CD pipeline with **GitHub Actions** and **Docker** to automatically deploy the app to a **Linux** server

Spotify Seasonal Playlist Creator *JavaScript, Python, Flask, Spotify REST API, Next.js, Docker Compose, NGINX*

- Develop a service that places liked songs into playlists grouped by seasons. Currently serving a user base of 20+ individuals
- Implement a multi-container architecture, utilizing **Docker Compose** to provision and configure infrastructure, including a **Flask** backend, **Next.js** frontend, and **SQLite** database with admin panel, behind an **NGINX** reverse proxy with SSL
- Develop and design the landing page, OAuth login flow, and user dashboard in **React** and **Tailwind**

Skills

Languages: JavaScript/TypeScript, HTML/CSS, Python, C++, Rust, Go, Java, \LaTeX , Dart, SQL, R, MATLAB

Web: React, Next.js, Svelte, Vue, jQuery, Figma, TailwindCSS, SCSS, 11ty, Express.js, Flask, FastAPI, Node.js, PostgreSQL, SQLite, MySQL

DevOps: Amazon Web Services (API Gateway, CDK, CloudFormation, DynamoDB, Lambda, S3), Firebase, Docker, NGINX