Jason Wong

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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 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

Twiine

- 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 the 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
- Automatically parse and extract relevant information like technologies and years of experience and filter out irrelevant listings like non-technical positions and senior roles
- Display data in a user-friendly frontend with **React** and **Tailwind**, allowing users to filter jobs based on location, salary, and more

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 **Next.js** and **TailwindCSS**
- Integrate with a **SQLite** database for error logging and playlist caching, minimizing API calls and monitoring error rates

Spam Email Detection *Python, Scikit-Learn, Natural Language Toolkit*

- Design and implement a **machine learning** based spam email classifier using **Python** and **scikit-learn**
- Train model on a dataset of labeled emails, achieving a precision of 98% and a recall of 97% with the Naive Bayes Classifier

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