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, Personalization

- Develop internal tooling with **Python** that enables the Customer Interests team to efficiently convert thousands of binary data points from multiple labeling jobs 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
- Design and implement a **DynamoDB** database to store and query labeled datasets
- Implement unit and integration tests with 100% branch and statement coverage where applicable

Frontend Developer   September 2021 - February 2022

TuffyHacks 2022

- Built mobile responsive frontend using **React (Next.js)**, primarily the landing page, promoting the event to thousands of students globally, and the dashboard, facilitating team creation and displaying live event announcements
- Design scalable and fault tolerant backend using **AWS Lambda** functions and a **PostgreSQL** database, minimizing cloud hosting fees while handling peak traffic from hundreds of users with 100% uptime and minimal latency during the event

Mobile and Backend Developer   June 2020 - September 2020

Twiine

- Built the MVP of a date and hangout planning mobile app using **Flutter**. Most notably, developed the planning and user profile view, with support for live updates when requests are accepted and profiles are updated
- Develop login and signup flow with **OpenID** and **OAuth** support for Google, Facebook, and Email authentication
- Design and implement the API endpoints allowing users to schedule hangouts and send invitations to other users

Computer Science Learning Assistant   January 2019 - December 2020

Pasadena City College

- Work one-on-one with students over hundreds of sessions, designing creative and intuitive lectures, providing insights to a variety of complex Computer Science topics
- Serve as TA for multiple courses, working closely with professors to improve lectures and programming assignments, building and reinforcing long term study habits within students

Projects

PositivityPost | Treehacks 2023, CSUF ECS Competition   February 2023

Typescript, Svelte, TailwindCSS

- Aggregates news from multiple sources to provide a more balanced and less biased view of the news
- Utilize sentiment analysis and language models to group and summarize coverage of newsworthy events
- Design user-friendly frontend allowing users to quickly filter and tailor their news feed based on topics and sentiments

Spam Email Classifier   November 2022

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

Spotify Seasonal Playlist Sorter   April 2020

Javascript, Python, Flask, Spotify REST API

- Develop a service that places liked songs into playlists grouped by seasons, currently serving 20+ users
- Integrate with a SQL database for error logging and playlist caching, minimizing API calls and monitoring error rates

Skills

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

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

Data Analysis/Machine Learning: Jupyter Notebook, Scikit-Learn, Numpy, Pandas, Pytorch, Keras

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