

Experience

Amazon, Personalization Software Development Engineer Intern May 2022 - August 2022

- Design and develop complex systems that process thousands of data points to create high confidence "golden datasets"
- Train, analyze, and improve model performance resulting in reduced overhead and minimizing data labeling costs
- Develop automations to process, transform, and upload labeling data in response to a completed Ground Truth job
- Parallelized dataset uploads with multithreaded insertions, increasing upload performance
- Design and implement a DynamoDB schema to store and query labeled datasets
- Implement unit and integration tests with 100% branch and statement coverage where applicable
- Configure and deploy the CI/CD infrastructure in TypeScript through AWS CDK and CloudFormation

Association for Computing Machinery at CSUF Historian, Website Developer April 2021 - Present

- Serve as official board member for the largest Computer Science club on campus
- Develop useful features for blog entries including read time estimates and syntax highlighting on code blocks
- Construct informative articles informing students about complex topics not frequently taught in classes
- Perform thoughtful code review by giving meaningful feedback and inciting discussion on Web Development best practices
- Mentor budding developers by writing useful documentation and providing pointers

TuffyHacks 2022 Website Developer September 2021 - February 2022

- Built mobile responsive web frontends, primarily the landing page, promoting the event to thousands of students, and the dashboard, facilitating team creation and displaying live event announcements
- Design scalable and fault tolerant backend using serverless technologies and a PostgreSQL database, staying within cloud computing free tiers, effortlessly handling peak traffic during the event

Nex-ii LLC, Twiine Full Stack Developer June 2020 - September 2020

- Built the MVP of a date and hangout planning mobile app using Flutter. Most notably, developed the planning and user profile pages, with support for live updates when requests are accepted and profiles are updated
- Develop login and signup flow with OpenID/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

Pasadena City College, Learning Assistance Center Learning Assistant January 2019 - December 2020

- 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 and stakeholders to improve lectures, building and reinforcing long term study habits within students

Projects

Spotify Seasonal Playlist Sorter Javascript, Python (Flask, Spotify REST API) April 2020

- Co-develop a web service that places liked songs into playlists grouped by seasons, currently serving 20+ users
- Develop and design a landing page and deployed the app onto AWS Lambda functions
- Integrate with a SQL database for error logging and playlist caching, minimizing API calls and monitoring error rates
- Rearchitected and rebuilt the service with serverless technologies, reducing maintenance and eliminating hosting fees

Sushi Shop Java (Swing, JavaFX) May 2017

- Lead a team to develop a sushi making game where players are given a randomized sushi order and must move a plate to catch falling ingredients to construct the order
- Develop major components of the game engine, specifically the 2D graphics renderer and the physics/collision logic

Skills

Languages: Python, C++, Java, JavaScript/TypeScript, HTML/CSS, L^AT_EX, Dart, SQL, R, MATLAB

Frontend/Mobile: React (Next.js, Gatsby), Svelte, Three.js, React Native, Flutter

Backend: Express.js, Flask/FastAPI, Node.js, Docker, PostgreSQL, SQLite, MySQL, Prisma

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

Education

B.S. Computer Science & Minor in Mathematics California State University, Fullerton May 2023

A.S. Mathematics Pasadena City College May 2020