Jason Wang

⬈ jasonherngwang.com   in jasonherngwang   ✉ jasonherngwang@gmail.com   📍 Los Angeles, CA

Experience

Software Engineer, Cohere Health   Jun 2023 – Present

Building applications to improve the patient healthcare experience and prior authorization process

Software Engineer, Co-Creator, Seamless (seamless-cicd.com) ⬈   Jan 2023 – Jun 2023

- Created an open-source serverless CI/CD pipeline that automates the building, testing, and deployment of microservices architectures to AWS Fargate, enabling engineers to deliver software frequently and reliably
- Developed 7 containerized TypeScript apps (1 for each pipeline stage) and integrated them into a state machine (AWS Step Functions) for independent scaling of stages and parallel deployments of microservices
- Built a UI with React and Tailwind CSS so users can monitor the pipeline on a real-time WebSocket dashboard, configure webhook triggers using the GitHub API, and promote deployments from staging to production
- Wrote a Node.js/Express.js REST API for managing pipelines, with an API Gateway to handle high traffic
- Implemented a relational database schema and index selection using PostgreSQL RDS and the Prisma ORM
- Published a TypeScript npm package ⬈ for sending logs to the backend, for fast read/write to Redis Elasticache
- Automated 50+ AWS steps down to a single command, by writing CDK code to deploy 13 CloudFormation stacks
- Designed a 1-click rollback feature so users can minimize downtime by reverting to any working Docker image
- Engineered a Docker Compose integration testing feature to ensure that all microservices function as expected
- Set up email, Slack, and PagerDuty notifications to minimize incident response time, using SNS and Lambda
- Authored a case study ⬈ on Seamless's problem domain, architecture, challenges, and design decisions

Senior Engineer, SoCalGas   Jan 2016 – Nov 2022

- Taught staff how to automate data analysis and visualization using Python (Pandas, Jupyter, Plotly), SQLite, and Vue.js, reducing errors and saving hundreds of hours on manual engineering calculations
- Led a 10-member engineering team to deliver multiple cross-functional hydrogen demonstration projects

Engineer II, Southern California Edison   Aug 2010 – Jan 2016

- Managed updates and wrote Excel VBA for 100+ engineering papers, achieving corporate energy efficiency goals

Skills

Languages & Frameworks
TypeScript, Express, React, Jest, Cypress, Python, SQL, Tailwind CSS

Other Technologies
Node.js, PostgreSQL, MongoDB, Prisma, Redis, Docker, Nginx, Figma

Cloud
AWS CDK, SDK, EC2, ECS, EFS, RDS, Step Functions, S3, CloudFront, SNS

Education

M.S. Mechanical Engineering, University of Southern California   2014 – 2017

B.S. Engineering, Harvey Mudd College   2006 – 2010

Professional Engineer License (Mechanical), State of California   2014