AUDRY HSU

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💼 EXPERIENCE

Creator, Software Engineer   Apr 2022 – present
Fána (www.fana-io.github.io) 🔗

Fána is an open-source feature flagging platform specializing in audience targeting for testing new features in production. Containerized with Docker and deployed on AWS.
- Designed a scalable, event-driven architecture composed of a backend Flag API service, admin dashboard, reverse proxy streaming service, and software development kits (SDKs) for Node.js and React apps.
- Built a reverse proxy service to stream real-time updates to SDKs via SSE (Node.js, Event Source API)
- Designed backend Flag API endpoints to manage flags with Redis cache to optimize data reads (Go, Postgres)
- Created admin dashboard UI to configure feature flags and manage SDK keys used for authentication (React)
- Automated cloud deployment to create and configure 13 constructs on AWS using Cloud Development Kit (Fargate, Load Balancer, ECS, ECR, RDS, ElastiCache, VPC)
- Implemented a multi-channel, Redis message broker in a publisher/subscriber model to decouple communication between backend Flag API and reverse proxy nodes (Node.js, Go)
- Developed and unit-tested algorithm that evaluates flags by parsing combinations of logic conditions
- Implemented SDK key validation to prevent exposure of sensitive/PII in flag data in client-side SDKs
- Authored technical case study 🔗 on design & engineering decisions made

Software Engineer   Jun 2021 – Apr 2022
Self-employed
- Mello: a kanban-styled, full-stack app to manage tasks and deadlines (React, Node.js/Express, MongoDB)
- Request Bucket: a tool to debug webhooks (Node.js/Express, WebSockets, React, PostgreSQL, MongoDB)
- Checkout: an e-commerce shopping cart app with a database backend (React, MongoDB, Node.js)
- Plantopedia: a plant API to help plant parents track and manage their plant babies' needs (Go, PostgreSQL)
- Todo: an app to manage todo lists (JavaScript, Node.js/Express)

Senior Consultant   Oct 2016 – Nov 2021
Deloitte Transactions & Business Analytics
- Drove delivery of a multi-year, $13+ million eDiscovery engagement that deduplicated 5.7+ TB of data resulting in significant client cost savings (Relativity)
- Analyzed vendor spend data and produced insights critical to client stakeholders' global contract renegotiations strategy and cost management strategy (Python, Tableau)
- Developed data visualizations and insights on trends published in 2020 & 2021 State of Legal Operations whitepapers based on touchpoints with executives across 81 companies & 5 major industries (Tableau)

🖥 SKILLS

Languages
JavaScript, Go, SQL, HTML/CSS, Python

Frameworks
Express, React, Redux, Jest, Handlebars, Gorilla Mux

Technologies
Node.js, PostgreSQL, MongoDB, Docker, Redis, WebSockets, EventSource, Git/GitHub, Nginx, Tableau, Figma, Relativity

Cloud
AWS (Cloud Development Kit, ECS, RDS, ElastiCache, Fargate, EC2, VPC), DigitalOcean Droplet, Heroku

🎓 EDUCATION

Software Engineering   2021 – 2022
Launch School (Capstone)
- Multi-year full-stack software engineering curriculum emphasizing mastery of fundamentals.

BBA & Masters in Accounting and International Business   2012 – 2016
University of Georgia (Magna Cum Laude)
- Honors Student & Terry College of Business Student Ambassador