Elaine Vuong

Software Engineer

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⟨⟩ TECHNICAL EXPERIENCE

Co-Creator - Software Engineer, *Tailslide (tailslide-io.github.io)* 🔗   May 2022 – present

Tailslide is an open-source, feature flag framework designed for organizations to easily and safely deploy new features with built-in circuit-breaking and automatic failure recovery.

- Architected a feature release toggle framework for backend microservices with automated circuit-breaking capability using NATS JetStream and Redis TimeSeries
- Constructed a full-stack application for management of feature flag and circuit breaking functionality with an Express backend, PostgreSQL database, and a React/Redux dashboard built with MaterialUI
- Spearheaded the implementation of NATS JetStream message broker, used to facilitate a real-time pub-sub communication pattern providing fault-tolerant, asynchronous inter-application communication
- Developed SDKs for evaluating feature flags and emitting circuit telemetry data in Go, Javascript, Python & Ruby
- Implemented the circuit breaker stability pattern with automated recovery logic by coordinating communication between SDK instances, a RedisTimeSeries cache, a Node.js app, and an Express backend
- Led Docker containerization of Tailslide's infrastructure for automated deployment onto a single Docker Network
- Created unit tests for evaluating Tailslide components such as: Express backend, Node.js app, and SDKs using Jest
- Collaborated remotely with a team of four software engineers across North America
- Authored documentation and the comprehensive technical case study 🔗 which describes deployment strategies, framework, architecture and analysis of design decisions and trade-offs encountered during implementation

Full Stack Software Engineer, *Self-Employed*   Oct 2020 – May 2022

Developed various personal and open-source software, some highlighted projects include:

- **Ello,** a Trello-inspired Kanban board for project management (Node.js, Express, React/Redux, MongoDB)
- **Hookz,** a RequestBin clone for debugging and testing webhooks (Node.js, Express, React, MaterialUI, PostgreSQL)
- **Cart,** an e-commerce shopping cart app (Node.js, Express, React/Redux, MongoDB)

</> SKILLS

Backend	**Frontend**	**Other Technologies**
JavaScript, Node.js, Express, PostgreSQL, MongoDB, Redis, TypeScript, Golang, Python	React, Redux, MaterialUI, TailwindCSS, HTML/CSS, Handlebars, Flask	Docker, Git/Github, NATS Jest, Websockets, SSE Digital Ocean, Heroku, SSH, Nginx

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🗄 PROFESSIONAL EXPERIENCE

Internal Auditor, *McCain Foods*   Jul 2019 – Aug 2021

- Created monitoring dashboards using Tableau to aggregate large datasets for visualization and insight generation
- Analyzed diverse and large-scale data to identify outliers for further audit investigation using CaseWare IDEA
- Led discussions with management about audit findings, risk factors and created recommendation action plans

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🎓 EDUCATION

Launch School,   Jan 2021 – May 2022
Fullstack Web Development - Mastery Based Learning 🔗

University of Toronto, *Bachelor of Business Administration*   Sep 2012 – Jun 2016
Specialist in Accounting | 3.88/4.00 | Honours List

🎖 CERTIFICATIONS

Chartered Professional Accountant (CPA, CA), *2017 Common Final Exam - Honour Roll*