

Elaine Vuong

Software Developer

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👤 PROFILE

Hi, my name is Elaine! 🙌 I'm a fullstack software developer with experience in technologies such as JavaScript, Node.js, PostgreSQL, MongoDB, Redis, Docker, and React. I recently built Tailslide, a feature flag framework for easier code deployment with automated failure protection. I am an optimistic, ambitious and curious individual who constantly aspires for growth and approaches problems with an open mindset.

💻 TECHNICAL EXPERIENCE

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

Tailslide is an open-source feature flag framework with automated failure protection, designed for easier code deployment and feature release for companies with a microservices-based architecture

- Architected a feature release toggle framework for backend microservices with automated circuit-breaking capability using NATS JetStream and Redis TimeSeries
- Led the implementation of NATS JetStream message broker, used to facilitate pub-sub communication pattern which provides fault-tolerant, asynchronous inter-application communication
- Built an Express backend with a RESTful API for handling feature flag requests, a PostgreSQL database for storing feature flag data, and a React dashboard built with MaterialUI components for feature flag CRUD capabilities
- Implemented circuit-breaking with automated circuit-recovery logic by coordinating messaging among various applications including Express backend, NATS JetStream, Redis TimeSeries, and a Node.js application
- Developed server-side SDKs for accessing feature flags data in various languages: JavaScript, Golang, Python, Ruby
- Led Docker containerization of Tailslide's infrastructure for deployment onto a single Docker Network
- Contributed to the creation of unit tests for testing Tailslide's infrastructure using Jest testing library
- 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 Web Developer, Self-Employed Oct 2020 – May 2022

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

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

</> CERTIFICATES

Languages and Frameworks

JavaScript, Node.js, Express
React, Redux, MaterialUI, Tailwind
PostgreSQL, MongoDB, Redis
Python, Golang, TypeScript

Cloud

AWS
Heroku
DigitalOcean (Droplets)

Other Technologies

HTML, CSS, Handlebars, Flask
NATS JetStream, Git/GitHub, Docker,
HTTP, REST APIs, Jest, SSH
Nginx, Webhooks

📁 PROFESSIONAL EXPERIENCE

Internal Auditor, McCain Foods Jul 2019 – Aug 2021

- Built monitoring dashboards using Tableau to aggregate large datasets for visualization and insight generation
- Analyzed diverse and large-scale data to identify outliers for further investigation and testing using CaseWare IDEA
- Led discussions with management about audit findings, communicated risk factors and formulated recommendations

🎓 EDUCATION

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

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