

# 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 is passionate about creative problem-solving and always eager to dive into new technologies.

### 💻 TECHNICAL EXPERIENCE

**Co-Creator - Software Developer, Tailslide** ([tailslide-io.github.io](https://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 and 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 developers 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 Developer, 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

JavaScript, Node.js, Express  
PostgreSQL, MongoDB, Redis  
TypeScript, Golang, Python

#### Frontend

React, Redux  
MaterialUI, TailwindCSS  
HTML/CSS, Handlebars, Flask

#### Other Technologies

Docker, Git/Github, NATS JetStream  
Jest, Websockets, Server-Sent Events  
Digital Ocean, Heroku, SSH, Nginx

### 📁 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, 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**