



## Sophie Chan

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🐙 J-SophieCodes    in sophiecw

### PROFESSIONAL EXPERIENCE

**Co-Creator, Software Engineer, Fjord** [🔗](#) 2021 – present

Fjord is an open-source, real-time API proxy for Apache Kafka.

- Deployed a multi-broker, distributed Kafka cluster on AWS EC2 with firewall protection to test with Fjord
- Contributed to the development of the Kafka consumer server that consumes the specified Kafka topics (KafkaJS)
- Contributed to the development of the real-time API server that uses the EventSource API to persist client connections, and a Redis server as the Pub/Sub mechanism for the auto-scaled server instances (Node.js, Express, Redis)
- Contributed to the architecture, development and automation of AWS deployment using the AWS console and CDK (components include: ECS with Fargate for the dockerized servers, ElastiCache, Auto-Scaling Groups, Application Load Balancer, NAT Gateways)
- Built the Fjord CLI [🔗](#) tool for command line deployment and teardown of the AWS infrastructure
- Co-led load testing with Gatling. Used Scala to build load testing scenarios
- Co-authored the Fjord Case Study ([fjord-framework.github.io](https://fjord-framework.github.io) [🔗](#))

**Full-Stack Developer, Self-Employed** 2020 – 2021

- Rello - A Trello-inspired Kanban board - React/Redux, Node.js, Express, MongoDB, Rest API
- InspectBin - Captures and stores HTTP/webhook requests from popular apps - Node.js, Express, Redis.
- Shopping Cart - An e-commerce app - React/Redux, Node.js, Express, MongoDB, Rest API
- Contact Manager - An Ajax app that dynamically filters contacts based on tags - Node.js, Express, jQuery, Handlebars

**Operations Analyst, Enwave Energy Corporation** 2017 – 2019

- Forecasted and analyzed daily/monthly system supply and demand.
- Performed engineering studies and built business case for facility retrofit and new customer connection projects.

### SKILLS

#### Languages

JavaScript, Ruby, Go, SQL, HTML, CSS

#### Libraries

KafkaJS, Socket.io, jQuery, Handlebars

#### Frameworks

React/Redux, Express, NodeJS, Sinatra

#### Databases

PostgreSQL, MongoDB, Redis

#### AWS

EC2, Fargate, ECS, ElastiCache, ALB, VPC, Auto-Scaling, CDK

#### Technologies

Docker, Git/GitHub, SSE, WebSocket, Kafka, Gatling

### EDUCATION

**Software Engineering, Launch School** [🔗](#) 2020 – 2021

Mastery-based software engineering curriculum - progression gated by written exams, code challenges and live coding interviews. Read more at [launchschool.com/employers](https://launchschool.com/employers) [🔗](#)

**Chemical Engineering, BASc, University of Toronto** 2011