Sophie Chan

📍 Toronto, Canada ✉ hello@sophiec.dev ✈ sophiec.dev ⦿ J-SophieCodes in sophiecwy

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
- Developed and dockerized a consumer server to create Kafka consumer groups (KafkaJS, Docker)
- Developed and dockerized a real-time API server that uses the EventSource API to persist client connections and Redis as the Pub/Sub mechanism to push records to all subscribed clients (Node.js, Express, Redis, Docker)
- Automated AWS deployment using the AWS Cloud Development Kit (CDK) (components include: ECS with Fargate for the dockerized servers, ElastiCache for Redis as Pub/Sub between the servers, Auto-Scaling Groups, Application Load Balancer, NAT Gateways)
- Built the Fjord CLI 🔗 tool for command-line deployment and teardown of the AWS infrastructure
- Load tested Fjord to handle over 8,500 concurrent connections (Gatling, Scala)
- Co-authored the Fjord Case Study (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	**Libraries**	**Frameworks**
JavaScript, Ruby, Go, SQL, HTML, CSS	KafkaJS, Socket.io, jQuery, Handlebars	React/Redux, Express, NodeJS, Sinatra
Databases	**AWS**	**Technologies**
PostgreSQL, MongoDB, Redis	EC2, Fargate, ECS, ElastiCache, ALB, VPC, Auto-Scaling, CDK	Docker, Git/GitHub, Webhooks, SSE, WebSocket, Kafka, Gatling, Ngrok

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 🔗

Chemical Engineering, BASc, University of Toronto