Sophie Chan

Toronto, ON, Canada ⌕ 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
- 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 persistent 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 containerized servers, ElastiCache, Application Load Balancer, Auto-Scaling, 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 🔗)

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 🔗

Chemical Engineering, BASc, University of Toronto   2011