



Edward Chong

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EDUCATION

University of British Columbia

Vancouver, BC

B.Sc. Major in Computer Science, Minor in Commerce, Year 4

Graduating May 2025

- GPA: 4.20/4.33
- **Awards:** Science Scholar, Dean's Honour List, Dean of Science Scholarship
- **Coursework:** Advanced Relational Databases, Distributed Systems, Computer Networking, Computer Hardware and Operating Systems, Intro to Software Engineering

EXPERIENCE

Web Support Specialist

Jan 2022 - Aug 2022

University of British Columbia

Vancouver, BC

- Developed and debugged websites built on the Drupal CMS using **JavaScript**, **CSS** on the front-end and **PHP** on the back-end
- Designed and implemented a CLI that utilised **SSH** and **SFTP** protocols to reduce configuration file management time from **3 minutes to 3 seconds**
- **Mentored** a junior team member and provided guidance for team best practices and problem solving
- **Exceeded expectations** by developing an additional project using **Node.js** and **bash scripts** to help resolve configuration version control issues quickly, **reducing time spent by over 75%**

Freelance Software Developer

Nov. 2020 – Present

Self-employed

Vancouver, BC

- Identified software-related needs and improvements to small business' data systems
- Developed a full-stack web application using **React** and **Firebase** for the automation of appointment booking processes
- Developed a spreadsheet extension using **JavaScript** and the **Shopify REST API** to **reduce order data processing time by 80%**
- **Worked closely with clients** to solicit feedback about features, design, and functionality
- Utilised **Agile** software development processes to track progress and manage time

PROJECTS

Knowledge Base | *TypeScript, React, PostgreSQL, GraphQL*

Sept. 2023 - Present

- Architected and implemented an Obisidian-inspired knowledge base **Electron** app using a **React front-end**, **TypeScript-GraphQL back-end**, and a **PostgreSQL** relational database
- Implemented a **GraphQL API service** to serve persisted data from a PostgreSQL instance
- Deployed back-end services to **AWS ECS** using **Docker images** and **AWS RDS** for PostgreSQL
- Implemented custom **authentication using JWT** for various GraphQL endpoints
- Created a force-directed graph data visualization for linked concepts using **d3.js**

Distributed Log Package | *Go, gRPC*

June 2023 - Present

- Implemented an Apache Kafka-esque **distributed logging service** in **Go** to store records with servers written using the **gRPC** framework
- Used **mutual TLS authentication** and **ACL-based authorization** to secure communication between internal distributed services with **CFSSL**
- Added **telemetry** through traces and logging using OpenCensus and Zap for observability

TECHNICAL SKILLS

Languages: TypeScript, C/C++, Go, Python, Java, PHP, SQL

Other Technologies: React, PostgreSQL, AWS EC2, AWS RDS, Node.js, Mocha, JUnit, Vue.js, Firebase

Developer Tools: CMake, Docker, Vim, Google Cloud Platform, VS Code

Libraries/Frameworks: gRPC, pandas, NumPy, sklearn