

CHRISTOPHER HADRIAN WONG

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TECHNICAL SKILLS

Languages: Go | JavaScript | TypeScript | Python | SQL | C++ | Java
Databases: PostgreSQL | Google Firestore | Microsoft SQL Server | SQLite
Technologies: React/Redux | Express | Koa | Docker | Git | Jira | AWS | Kibana

WORK EXPERIENCE

Software Developer Co-op, Alida Sep 2022 – Aug 2023

- Developed a data ETL tool using **Go**, **PostgreSQL**, **AWS SQS**, and **Kibana** to extract and transform data from multiple sources into an EAV data model, and load it to a data warehouse
- Constructed a data catalog API with **Go**, **Go-chi** to provide a simple and efficient way to retrieve data and metadata from the EAV model data warehouse
- Designed and implemented a robust API endpoint in **Go** utilizing **Go-chi**, **AWS SQS**, and **PostgreSQL** to enable data sentiment analysis using a sophisticated **large language model (LLM)**
- Implemented table-driven unit and integration tests with a generic test framework to ensure quality and maintainability of the ETL tool

Software Developer Intern, Felix Payment Systems May 2022 – Aug 2022

- Developed onboarding and registration features for a client portal website according to its UI design prototype with **React**, **Typescript**, **Node.js**, **Express**, and **SQL Server**
- Configured CI/CD Pipeline for the client portal's codebase by setting up **Bitbucket Pipeline**, including writing unit tests with **Mocha** and **Chai**
- Assisted the development and design of a tap-to-phone payment mobile application with **QT Creator** by adhering to Figma mock-ups and business logics

LEADERSHIP EXPERIENCE

Web Development Lead, Gado-Gado Indonesian Student Association of UBC Oct 2022 – May 2024

- Led a team to design and develop a student association website (www.gisaubc.com) using **React**, **Tailwind CSS**, **Google Firestore**, and **Netlify**. Increased traffic by 146.8% to 2,700 visits
- Conducted bi-weekly internal meetings to discuss the software development life cycle using **JIRA**, **Confluence**, and **GitHub**, and attended general meetings to provide updates on the team's progress, enhancing organizational communication and collaboration
- Developed a gamified Pomodoro timer with **React**, **Express**, **Node**, **Auth0**, **Firebase Function**, and **Firebase Firestore** boosting user engagement and loyalty through reward points redeemable for club's merchandise and event tickets
- Developed an online polling tool with **React** and **Google Firestore** for the club's annual election, eliminating the need for manual validity checking. Successfully managed 80 responses and provided real-time data upon completion

PROJECTS

FridgeBot | <https://github.com/chrishadrian/FridgeBot> Aug 2024 – Current

- Developed a full-stack web application using **Next.js**, **React**, **Tailwind CSS**, and **PostgreSQL**, enabling users to track fridge inventory and receive personalized recipe recommendations by automatically parsing grocery receipt data with **GPT-4**.
- Implemented a dynamic recommendation engine that suggests recipes based on user inventory, reducing food waste and enhancing convenience.

Recipe Buddy | <https://github.com/chrishadrian/recipe-buddy> Aug 2023 – Sep 2023

- Developed a web application for organizing video recipes from platforms like Instagram and TikTok, providing users with easy access to tutorial videos, ingredient lists, and instructions.
- Utilized **ReactJS** for the front-end, with **Auth0** for user authentication and **Firebase Firestore** for secure data storage and management.

Unixpense | <https://github.com/chrishadrian/Unixpense> Sep 2021 – Dec 2021

- Developed an expense tracker desktop application with **Java**, **JUnit**, and **Swing** that allows users to create, delete, save, load, and analyze their expenses

EDUCATION & AWARDS

University of British Columbia, Vancouver Sep 2020 – May 2025

4th Year Bachelor of Science, Computer Science Major

- Coursework:** Advanced Relational Databases, Parallel Computation, Machine Learning and Data Mining, Applied Machine Learning, Computer Hardware and Operating Systems, Intro to Computer Networking, Intro to Software Engineering, Intermediate Algorithm Design and Analysis
- Vantage One Entrance Award:** Granted based on academic merit