

# Brandon Liang

6046039298 | brandon121511@gmail.com | liangyon.github.io | www.linkedin.com/in/liangyon

## SKILLS

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**Languages:** Python, TypeScript, JavaScript, Java, C, SQL, HTML/CSS

**Frameworks & Libraries:** React, Next.js, Node.js, FastAPI, Express.js, Jest, Pytest

**Databases:** PostgreSQL, MongoDB

**Cloud & DevOps:** Azure, GCP, Docker, Git

**Tools & Methodologies:** Jira, Agile/Scrum

## EXPERIENCE

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### Software Developer

Optimize Everything | Vancouver, BC | Mar 2025 - Current

- Developed trip management and user profile APIs using FastAPI and Python, implementing OData standards for RESTful API endpoints and designing database schemas to support rideshare operations for growing user base
- Built frontend features for client application using React and TypeScript, including trip booking flows and user review system, contributing to MVP launch in August 2025
- Implemented JWT-based authentication system with refresh token rotation, login/logout flows, and role-based access control standards across API endpoints
- Deployed and maintained containerized microservices on Google Cloud Platform using Cloud Run, implementing CI/CD pipelines and establishing automated testing practices with Jest and Pytest

### Web Developer

Z-Motors Group | Vancouver, BC | Oct 2024 - Feb 2025 | Contract

- Launched a marketing website with Next.js and Decap CMS that reduced annual website maintenance costs by 85%
- Reduced page load times to under 2 seconds by utilizing Next Image optimization strategies and caching
- Implemented client-side search functionality with debounced inputs and filtered results, reducing API calls and improving user interaction speed by 40%

### Software Developer

Ontario Health | Toronto, ON | Sep 2021 - Sep 2022

- Developed and tested a hospital budget reporting tool to track and analyze departmental spending, serving 200+ facilities, using React (TypeScript) for the frontend and Node.js/Express.js APIs with MongoDB on Azure
- Built a dynamic reporting dashboard frontend with interactive visualizations, enabling real-time budget insights and reducing the time spent on manual data analysis by 40%
- Optimized database queries and implemented efficient archiving that reduced page load times from 8s to 2s
- Designed an in-browser Excel spreadsheet component using React and custom hooks that streamlined data entry workflows

## PROJECTS

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### Selah Library

<https://www.selah-library.app> | Express.js, Next.js, PostgreSQL

- Developed and deployed production-ready full-stack application with Next.js/Express.js architecture and Google Drive API integration, actively serving 20+ users with 99.9% uptime
- Implemented secure cloud synchronization system with automated metadata processing and advanced search capabilities, enabling efficient music library management and cross-platform compatibility
- Built automated metadata extraction pipeline processing 1000+ song files, standardizing tags and enabling fuzzy search across artist, title, and album fields

### Delta Connect

<https://github.com/liangyon/delta-connect> | Python, PySide6, Dropbox API

- Built cross-platform desktop application with PySide6 GUI for automated game save synchronization across emulators and iOS Delta app
- Integrated Dropbox API to enable seamless cloud-based save file management and real-time sync between Windows/Mac/Linux emulators

## EDUCATION

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### University of Toronto

Bachelor of Science (B.Sc.) in Mathematics and Minor in Computer Science | Toronto, ON | May 2023