Brandon Liang

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SKILLS

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

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
- 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 | Sept. 2021 – Sept. 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

Selah Library
https://www.selah-library.app | Express-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

University of Toronto
Bachelor of Science in Mathematics & Minor in Computer Science | Toronto, ON | May. 2023