Brandon Liang

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TECHNICAL SKILLS

Programming: Python, Java, Javascript, Typescript, C, SQL, HTML/CSS
Frameworks/Databases: React.js, Next.js, Node.js, Express.js, Django, MongoDB, PostgreSQL
Cloud: Azure, AWS

EXPERIENCE

Full Stack Developer   **Sept. 2023 - Sept. 2024 (Contract)**
Genda Group LTD   Vancouver, BC
- Developed and tested functionality for a tutoring management platform using React, Next.js, and TypeScript
- Implemented a REST API with DjangoREST and PostgreSQL for managing homework questions by adding filtering and tagging capabilities, streamlining searching and improving query efficiency by up to 25%
- Built a digital assessment system, digitizing feedback and homework workflows, saving up to $20 per student annually in office supplies
- Integrated an automated notification system, decreasing teacher follow-ups and improving student adherence to assignments

Software Developer   **Sept. 2021 - Sept.2022**
Ontario Ministry of Health   Toronto, ON
- Developed and tested full-stack features for a hospital database application, including React components with TypeScript for the frontend, and building APIs with Node.js-Express and MongoDB on Azure
- Optimized the archiving feature for a dynamic activity log, reducing user load times by up to 30% and improving backend query efficiency by 20%
- Designed and implemented a custom React library allowing users to modify Excel-spreadsheets directly within the application, improving data management efficiency for users
- Took initiative to improve main page load times by up to 5 seconds by employing more efficient table indexing

Software Developer   **Oct. 2024 - Dec. 2024 (Contract)**
Z-Motors Group   Vancouver, BC
- Designed and developed a dynamic corporate website using Next.js and Decap CMS, enabling user-friendly content management and responsive content
- Collaborated with business owners to gather requirements and implement features, ensuring alignment with objectives and branding guidelines
- Streamlined the development process by setting up reusable Next.js components and templates, accelerating the addition of new pages by 40%

PROJECTS

Song Library   **Python-Django**
https://selah-library.app
- Developed in Python-Django with AWS S3 a sheet music sharing application that serves 20+ regular users
- Added advanced search and filtering for tags, titles, authors, and genres, improving user experience

Space Invaders   **Android Studio-Java**
https://github.com/liangyon/phase-1
- Developed a flexible Java game engine and created a classic Space Invaders game for Android
- Utilized design patterns to manage object creation and event handling, improving maintainability
- Integrated efficient image processing techniques to enhance performance, resulting in 20% faster rendering

EDUCATION

University of Toronto   **May, 2023**
Honours Bachelor of Science, Mathematics, Computer Science   Toronto, ON