Matt Tsai

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SKILLS

Programming Languages: C/C++, Java, Python, JavaScript, TypeScript

Web Development: Node.js, React, Express JS, Spring Boot, REST API, HTML, CSS, EJS

Database Management: SQL, PostgreSQL, MongoDB

DevOps & System Administration: Git, Docker, GitHub CI/CD, GitHub Actions, AWS, Maven, Linux, WebLogic,

Oracle SOA suite, WildFly, JBoss, GlassFish, Glowroot

EXPERIENCE

SFU & Hope Health Action

Jan 2024 – Present

Full-stack Developer (Part time)

Vancouver, BC, Canada

- Developed with a non-profit organization for Haiti hospitals using **React**, **Express**, **Typescript**, **Node.js** and **MongoDB**.
- Orchestrated a streamlined Docker setup process through an automated script, facilitating effortless deployment
 for clients on their server environments.
- Transitioned node version of **GitHub CI/CD pipelines** and **Docker**, which optimized build processes and enhanced compatibility with latest **TypeScript** features.

Expo-Growth Marketing Corp.

Dec 2023 – Present

Software Engineer (Part time)

Vancouver, BC, Canada

- Redesigned an advanced AI-driven chatbot leveraging **Python**, significantly enhancing customer engagement by autonomously resolving 95% of inquiries.
- Implemented OpenAI API, Shopify API and Gmail API to give accurate customer service responses.

BC Liquor Distribution Branch

May 2022 – Dec 2022

Database/Middleware Admin Co-op

Burnaby, BC, Canada

- Transitioned **JBoss** services to **WildFly** with other teams, resulting in an annual cost reduction equivalent to approximately 15% of the previous expenditure.
- Configured **RWP***Load **Simulator** to accurately simulate real-world workloads on an Oracle database, ensuring robust testing and performance evaluation.
- Managed and optimized multiple application components in middleware and database.

TECHNICAL PROJECTS

Security Camera System | O

- Implemented a home security full-stack and embedded system with remote monitoring, using C, JavaScript, React, Express, Node.js, HTML/CSS.
- Utilized Beaglebone hardware with to capture, process, and synchronize audio, video, and motion sensor data.
- Employed **UDP** protocol to enable real-time audio and video streaming to a website.

SFU Online Chat Website | •

- Built the full-stack chat website, including a login system, chat room, video room and dashboard using JavaScript, React, HTML/CSS, Express, Node.js, PostgreSQL.
- Designed group channel features to allow many entities with CRUD through 6 REST API endpoints.

LEADERSHIP EXPERIENCE

SFU Taiwanese Association

Jun 2021 – Aug 2023

Burnaby, BC, Canada

- Vice President of Marketing
 - Created the digital membership card by Pass2U with HTML/CSS, achieving a 56% increase in revenue.
 - Applied graphic design and photography to social media posting, resulting in a 129% view growth in non-followers.

EDUCATION

Simon Fraser University

Burnaby, BC, Canada