Michael Kwan

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Technical Skills

Languages: JavaScript/TypeScript, HTML/CSS, C/C++, Python, Java, Kotlin
Frameworks/Libraries: React, Express.js, Socket.IO, Django, Vitest
Databases: MongoDB, Cloud Firestore, SQL (PostgreSQL, MySQL, SQLite)
Developer Tools: VS Code, Git, Node.js, Android Studio

Personal Projects

DoodleLive | *React, Node.js, Express, Socket.IO, MongoDB* Mar 2026 – May 2026

- Built a **real-time collaborative whiteboard** with concurrent multi-user drawing, text editing, and WebSocket-based state synchronization.
- Developed an **infinite zoomable canvas** with object-based rendering and synchronized undo/redo operations for individual users across connected clients.
- **Reduced network overhead** by throttling cursor and stroke event streams during real-time collaboration.
- Persisted shared workspace state in MongoDB and deployed the application on Render.

WebChat | *React, Node.js, Express, Socket.IO, MongoDB* Dec 2025 - Mar 2026

- Developed a **real-time messaging application** supporting simultaneous conversations between authenticated users.
- Implemented **JWT authentication** to secure user accounts and API endpoints.
- Built **RESTful APIs** for messaging, user management, and persistent storage.
- Created a **responsive chat interface** featuring message history and real-time message updates
- Deployed app on Render for live access and testing.

WhatsNext | *React, Django, TypeScript, SQLite* Sep 2026 – Present

- Developing a Kanban-style task management application to organize software projects and track development progress.
- Building the backend using **Django and SQLite**, developing REST API endpoints and database models for task management.
- Writing frontend tests using **Vitest** to verify UI functionality and improve application reliability.

Volunteer Experience

IT Support Volunteer Sep 2022 – Apr 2023
IT Squad *Burnaby, BC*

- Provided frontline technical support, resolving hardware and software issues for students and faculty.
- Assisted students with computer science coursework by troubleshooting coding problems and explaining concepts.
- Maintained computer labs and equipment, ensuring consistent availability and smooth operations.

Work Experience

Line Cook May 2022 – Oct 2024
Cactus Club Cafe *Vancouver, BC*

- Managed high-volume workflows, prioritizing tasks and adapting to changing conditions while meeting strict deadlines.
- Collaborated with a team of 15+ during peak service hours, maintaining quality standards through effective communication and coordination.

Education

Simon Fraser University Sep 2021 – Dec 2025
Bachelor of Science (B.Sc.) in Computing Science *Burnaby, BC*