JACKIE MA

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EXPERIENCE

Full-Stack Developer — Sep 2023 – Dec 2023
TeraDrive — *Burnaby, BC*
- Designed and developed a full-stack web-based case tracking system using Monday.com API, streamlining case management and improving team collaboration by consolidating data to a single platform
- Created and implemented a PostgreSQL database to migrate all data from Monday.com, ensuring seamless data transition and enhancing data management flexibility for future scalability
- Developed intuitive features to allow users to perform CRUD operations on the PostgreSQL database, streamlining data management and improving overall user efficiency
- Estimated annual labour savings of over $13,000 by reducing daily workload by ten minutes per employee for a team of ten at $30/hour

Software Developer — Apr 2023 – May 2023
MealPlanIQ — *Burnaby, BC*
- Developed a feature-rich web application to generate customized meal plans, significantly improving user engagement and satisfaction by offering tailored solutions
- Implemented personalized meal plans that integrated BMI and dietary restrictions, leading to more relevant meal recommendations and improved user experience
- Hosted web application and database on Google Cloud Platform, ensuring seamless scalability and minimal downtime for uninterrupted access

Junior Technician — Sep 2021 – Dec 2021
Bingham + Hill Architects — *Vancouver, BC*
- Collaborated with architects and engineers to interpret and implement drawing revisions, ensuring design changes were accurately reflected in final project plans
- Conducted detailed reviews and analyses of project specifications to confirm accuracy and alignment with the design intent, facilitating smooth project execution and reducing errors in construction documentation

PROJECTS

PromptVisioQuiz | *Node.js, Express.js, JWT, Python, Flask, PostgreSQL, stable-diffusion* — Nov 2023 – Dec 2023
- Engineered a distributed computing system for password hash recovery, dividing search space across networked workers and implementing automatic work reassignment to handle worker failures and timeouts
- Designed a robust checkpoint system with granular progress tracking, enabling resume-from-failure capabilities and real-time monitoring of distributed worker status across the network

DistributedHashRecovery | *Python, Sockets, Distributed Systems, Cryptography* — Nov 2025 – Dec 2025
- Developed a distributed password recovery system supporting Linux shadow files, coordinating multiple networked workers to search password spaces with automatic work reassignment on disconnection and shutdown upon success
- Designed fault-tolerant architecture with checkpoint-based progress tracking and SSH-enabled remote worker deployment, enabling scalable utilization of computing resources across multiple machines

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C#, SQL
Frameworks: .NET, Node.js*, Express.js, Flask, React, Tailwind
Databases: PostgreSQL, MySQL, MariaDB, SQLite, Firebase

EDUCATION

Bachelor of Science in Applied Computer Science — Sep 2024 – May 2026
British Columbia Institute of Technology — *Burnaby, BC*

Diploma in Computer Systems Technology — Jan 2022 – Dec 2023
British Columbia Institute of Technology — *Burnaby, BC*