

Yosef Mekonnen

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Profile

Computer Science co-op student at UPEI with a Minor in Mathematics and hands-on experience building AI-integrated full-stack applications, designing backend systems, and solving real-world problems through software. Strong foundation in Python, JavaScript, and Java. Passionate about artificial intelligence, backend development, and building products that genuinely help people. Actively seeking Fall 2026 co-op opportunities.

Education

BSc Computer Science (Co-op), Minor in Mathematics – University of Prince Edward Island **Expected: Dec 2028**

Coursework: Data Structures & Algorithms, OOP, Database Systems, Web Programming, Linear Algebra, Calculus, Differential Equations

Technical Skills

Languages: Python, JavaScript, Java, SQL, HTML5, CSS3

Frameworks & Tools: React, Node.js, Express, REST APIs, Git, GitHub, VS Code, IntelliJ IDEA

AI & Data: OpenAI API integration, data analytics, category-based visualization, JSON data management

Exploring: Azure AI Fundamentals, PostgreSQL, machine learning concepts, cloud deployment

Projects

Personal Finance Dashboard – React / Node.js / Express / OpenAI API 2026

- Built a full-stack AI-integrated application featuring OpenAI-powered financial analysis, full CRUD transaction management, interactive category-based spending analytics, and persistent JSON storage.
- Designed a REST API layer connecting the React frontend to the Express backend and OpenAI API, handling AI responses reliably and presenting actionable insights to end users.
- Applied structured input validation and data integrity checks to ensure accurate, consistent records throughout the application.

Real-Time Energy Monitoring Dashboard – Python / React Jan 2026

- Built a full-stack hackathon application (Python backend, React frontend) consuming live system data via REST APIs; diagnosed and resolved data pipeline failures through systematic debugging under time pressure.
- Collaborated with a multidisciplinary team using Git, delivering documented, version-controlled code within a strict deadline.

Astronomy Equipment Store Simulation – Python / OOP 2025

- Designed a Python OOP application simulating inventory management and customer interactions, with input validation, exception handling, and full documentation.

Work Experience

Grocery Clerk – Atlantic Superstore, Charlottetown, PE May – Sept 2025

- Resolved customer issues professionally in a high-volume environment; managed competing priorities while maintaining accuracy, reliability, and clear communication under pressure.

Professional Development & Achievements

Wavemakers Innovation & Leadership Program – Graduate Feb 2026

- Completed team-based innovation challenges requiring structured problem analysis, solution documentation, and presenting findings to industry professionals.

Availability

Available full-time September – December 2026 — Charlottetown, PE — Authorized to work in Canada on a co-op work permit through UPEI