

Mahdee Khandokar

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Education

University of Waterloo

Honours Bachelor of Computer Science - Business Specialization

June 2027 (Expected)

Waterloo, ON

- **Relevant Courses:** Data Structures, Object-Oriented Programming, Introduction to Database Management, Introduction to Business Organization

Experience

UWMSA | React, TypeScript

January 2025 – April 2025

Tech Lead

Waterloo, ON

- Designed and implemented UI components and features for the MSA mobile app, enhancing user experience and serving the UW Muslim community of over 4500 students.
- Debugged and refactored the existing UWMSA mobile app codebase to resolve performance bottlenecks and integrate key new features, enhancing the overall stability and user experience for the student community.
- Contributed to feature iteration by providing design suggestions during weekly meetings and seeking clarification on existing codebase logic, ensuring new development aligned with design specifications and intentional architecture.

Projects

Pokédex | React, Node.js, Tailwind CSS, MySQL, GitHub

May 2025 - August 2025

- Collaborated in a team of 4 to develop a full-stack responsive Pokédex web app using React, Node.js, Tailwind CSS, and MySQL to create a user-driven interface.
- Integrated a MySQL database and REST API to enable user accounts and support retrieving, filtering, adding, deleting, and updating Pokémon data, as well as trading and viewing other user profiles.
- Designed a clean, dynamic UI to ensure smooth user flow and intuitive interactions, enhancing overall user experience.

Receiptly | Figma, Xcode, SwiftUI

December 2024 - Present

- Designed a digital receipt app in Figma for expense tracking and budgeting, focusing on clean layout, spacing, and visual hierarchy to enhance usability.
- Created detailed wireframes and mockups outlining categorization, filters, and receipt retrieval features, with plans for future SwiftUI development.

Alpha Vantage Stock Analysis | Python, pandas, Excel, PowerBI

November 2024

- Developed a Python script to export data retrieved from the Alpha Vantage API to Excel at the opening bell.
- Utilized the Excel data to create Power BI visualizations, identifying trends and insights to enhance financial analysis.

Wealthsimple Live Case Project | Word, Excel, PowerPoint

September 2022 - December 2022

- Designed an implementation strategy that saves \$4 to \$4.5 million, allowing reinvestment in other projects and marketing campaigns to attract customers outside of university campuses.
- Utilized PEST factors, Porter's Five Forces, Diamond-E framework, Gantt charts, cost-benefit analysis, heat maps, and mitigation/contingency planning to create a strategy aimed at increasing engagement among university students while generating \$833,000 to \$1.25 million for the university.
- Led a team of 4 to the quarter-finals in an interclass competition with over 500 students by scheduling and facilitating weekly scrum meetings.

Technical Skills

Languages: Python, C, C++, HTML, CSS, JavaScript, TypeScript, SQL, Bash, SwiftUI, MIPS, ARM

Frameworks/Libraries: React, Node.js, pandas, Expo

Tools/Platforms: Git, GitHub, Vite, Excel, Power BI, LATEX, Docker, Figma, Trello, Xcode, Lucidchart, Agile, Notion

Technical Experience & Simulations

Hewlett Packard Enterprise Software Engineering Job Simulation on Forage

September 2025

- Wrote a proposal for a RESTful web service to manage a list of employees.
- Built a web server application in Java Spring Boot that can accept and respond to HTTP requests as well as support uploading JSON data.
- Developed and ran a set of unit tests to assess my Java Spring Boot application's performance.