

# Michelle Okolie

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## EDUCATION

### University of Manitoba

Sep. 2023 – May 2028

*Computer Science, B.C.Sc., Honours*

*Winnipeg, MB*

- **Awards:** Dean's Honour List, Undergraduate Research Awards, UM Hogg Centennial Entrance Scholarship
- **Coursework:** Data Structures & Algorithms, Software Engineering, Databases: Concepts and Usage, Operating Systems

## EXPERIENCE

### Manitoba Hydro

May 2026 – Aug. 2026

*Software Developer Intern*

*Winnipeg, MB*

- Engineered a WPF C# (MVVM) desktop application to interface with Active Directory and file shares, reducing a 45 minute manual reporting process across multiple systems to under 60 seconds
- Automated analysis of backlogged network drive requests using Python, Selenium, and pandas, streamlining a 30+ minute manual workflow by surfacing duplication patterns and request frequency

### University of Manitoba

Sep. 2024 – Present

*Teaching Assistant/Grader*

*Winnipeg, MB*

- Built a full-stack autograder (Java, Python, FastAPI) combining a compile-and-test harness, AST-based static analysis, and a locally-hosted LLM (Ollama) code review in a Linux environment to save 20+ manual hours grading
- Guided 90+ students through debugging, control flow, and algorithmic problem-solving in Java and Python by translating technical concepts into easy to understand ideas

### University of Manitoba

May 2024 – Aug. 2024

*Undergraduate Research Assistant*

*Winnipeg, MB*

- Implemented recording and audio signal analysis programs in Java and Python to capture, export, and visualize audio waveform for speech recognition tests
- Built Java-based audio modules for the SOTA social robot, using specialized speech synthesis libraries and APIs to generate speech and synchronize playback with the robot's native CPlayWave library

## PROJECTS

### Real-Time Status Sharing App | *TypeScript, React Native, Expo, Supabase*

- Built a passive status-sharing app for broadcasting real-time availability to close friends via presets and context notes
- Implemented persistent auth sessions, auth-state monitoring, and automatic sign-in redirects using Supabase
- Designed a relational friend-request system with pending/accepted states and database constraints preventing duplicate or self-initiated connections

### Visual Course Schedule Planner | *Javascript, TypeScript, Chrome Extension, Firebase*

- Built and shipped a browser extension for visual course-schedule planning, reaching 20+ installs on the extension store through organic student word-of-mouth
- Engineered Firebase-backed social scheduling features, including shareable join codes, friend overlays, and real-time overlap detection, alongside course browsing and exportable schedules

### Crisis Response & Emergency Triage App | *Typescript, React Native, Expo, Node.js*

- Awarded **Most Impactful Project** at UWinnipeg Hacks (team of 5) for creating a crisis response app focused on emergency triage and shelter connectivity
- Engineered an SOS SMS feature utilizing Expo's SMS API to enable emergency alerts, allowing users to broadcast distress signals and location data to pre-set emergency contacts

## LEADERSHIP & ACTIVITIES

### Computer Science Students' Association

Apr. 2026 – Present

*Director of Events*

- Directing event strategy for the UM CSSA, serving a Computer Science program of **950+** students across four degree streams
- Planning and organizing the association's flagship events, including an annual **Capture the Flag** competition and **Game Jam**, alongside recurring workshops, community socials, and a professor appreciation awards show

### AWS She Builds Mentorship Program

Aug. 2026 – Present

*Mentee*

- Selected for a competitive AWS cloud mentorship initiative focused on cloud architecture, technical skill development, and industry networking.

## TECHNICAL SKILLS

**Languages & Frameworks:** Java, Python, TypeScript, JavaScript, C/C++, SQL, HTML/CSS, React Native, Next.js, Node.js

**Developer Tools & Infrastructure:** Git, Unix/Linux, Supabase, AWS, Selenium, Android Studio, Expo, Ollama

**Concepts & Architecture:** REST APIs, Relational Database Design, Data Structures & Algorithms, Full-Stack Development