

# Kazi Shadeen Morshed

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## EDUCATION

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### University of Guelph

*Bachelor of Engineering in Computer Engineering*

Guelph, ON

*September 2023- Ongoing*

## EXPERIENCE

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### Undergraduate Research Assistant

*University of Guelph*

May 2025 – August 2025

*Guelph, ON*

- Developed a Bluetooth application that scans, connects, sends and receives data with connected devices.
- Created an ESP32 BLE server with custom service/characteristics that allows a browser client to write data to the ESP32 and receive notifications back, enabling two-way communication.
- Worked with the motor of a robotic car designed to run on uneven surfaces.

## PROJECTS

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### Bluetooth App for ESP32 | *University of Guelph*

May 2025 – August 2025

- Developed a Progressive Web App (PWA) using HTML, JavaScript, and Service Workers to enable offline functionality and installable mobile-app experience.
- Integrated Web Bluetooth API for real-time, bidirectional communication between browser and ESP32 microcontroller.
- Deployed on GitHub Pages with HTTPS hosting, custom manifest, and icons for cross-platform access and mobile home-screen installation.

### Express REST API Starter with SQLite | *Personal Project*

May 2025 - August 2025

- Built a REST API in Express with clean layer, consistent errors, request ID logging and Swagger docs.
- Integrated SQLite via Node 22 node:sqlite, created SQL schema and simple migrations.
- Set up environment based config for PORT and DB\_FILE, enabled easy switching between memory and SQLite drivers

### QuickTask | *Personal Project*

January 2025 – February 2025

- Developed a Task Manager with task creation, real-time calendar view and offline data storage.
- Wireframed the UI with TLDraw and build a basic responsive frontend using HTML5, CSS3, JavaScript and Local Storage.
- Enhanced skills in frontend development, responsive design, basic user-centered UI/UX, and client-side storage management.

### Digital Board Game | *University of Guelph*

January 2024 – March 2024

- Collaborated in a team to develop Java code for a fully functional board game.
- Designed the GUI and integrating assets with the game code, game including version control and debugging
- Successfully completed project in a timely manner with 100 percent grade.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS

**Libraries and Frameworks:** MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Fastify

**Developer Tools:** Git, VS Code, IntelliJ

## RELEVANT COURSES

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**CIS\*2520(Data Structures):** Learned core Data Structures (arrays, stacks, queues, linked lists, trees) and achieved 80 percent in the course.

**ENGG\*1420(Object Oriented Programming):** Completed an Object-Oriented Programming course, achieving proficiency in core OOP principles and achieved 85 percent in the course.