# MD RAHBIR MAHDI

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## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, JavaScript, HTML, CSS, R

**Technologies/Frameworks:** ReactJS, React Native, Next.js, FastAPI, MediaPipe, OpenCV, PyTorch, TensorFlow

**Developer Tools:** Git, Google Cloud Platform, Firebase, VS Code, PyCharm, Docker, Vercel, Supabase

## EDUCATION

**York University**                                                                                  Toronto, ON
*Bachelor of Science in Computer Science*                                        *Sep. 2023 – Sep. 2027*

*Relevant Coursework: Discrete Math, Advanced OOP, Computer Organizations, Data Structures and Algorithms*

## EXPERIENCE

**Islamic Center of Markham – Masjid Darul Iman**                                Toronto, ON
*Software Developer Intern*                                                          *Jul. 2025 – Aug. 2025*
- Developed a community-facing mobile application using **React Native (Expo)**, serving **1,000+ members** with real-time announcements and prayer schedules.
- Implemented push notifications with **OneSignal** and live data syncing via **Supabase**, enhancing user engagement.
- Engineered a **full-stack Volunteer Scheduling platform** leveraging **React.js** and **Supabase** to coordinate **250+ volunteers**.
- Integrated secure **Supabase Auth** with **PostgreSQL**, enabling role-based access and seamless **CRUD** operations.

**Freelance Web Developer**                                                          Apr. 2025 – Nov. 2025
- Built responsive websites with **React**, **Next.js**, and **Tailwind CSS**, leading to a **3x** increase in traffic for personal brand clients.
- Developed automated unit and integration tests using **Jest** and **Postman**, reducing post-deployment bugs by **60%**.
- Streamlined CI/CD via **GitHub Actions**, automating builds and deployment to cut release time significantly.

## HACKATHONS & PROJECTS

**Nervy (HackHive 2026)** | *FastAPI, WebSockets, MediaPipe, PyTorch*                  Jan 2026
- Engineered a high-performance **FastAPI** backend using **asynchronous WebSockets** to stream and process video frames in real-time for low-latency feedback.
- Developed a multi-modal CV pipeline using **MediaPipe** and **OpenCV** to extract landmarks and calculate quantitative metrics for eye contact and posture.
- Architected an **ASL-to-text** engine using **PyTorch** and **Hugging Face** (ResNet-LSTM) to translate sign language landmarks into live captions.
- Integrated **Google Gemini** and **Librosa** to analyze transcripts and audio, generating coaching reports based on STARR-method compliance.

**Mimicoo (Hack the Valley 2025 - 6th Place)** | *Python, React, Librosa, Gemini API*          Oct. 2025
- Developed backend with **Python** and **Parselmouth** to analyze infant babble features for speech disorder risk analysis.
- Created frontend visualizations in **React** and **TypeScript** to provide real-time feedback for parents.
- Built an AI pronunciation trainer evaluating clarity and fluency for feedback-based scoring.
- Deployed via **FastAPI** on **Render** and **Vercel** with secure reports and follow-up scheduling.

**Vroomi (SpurHacks 2025 - 3rd Place)** | *React, TailwindCSS, TypeScript, Supabase*          June 2025
- Created a ride-sharing app with geolocation-based cost-splitting and route optimization algorithms.
- Integrated **Supabase** for real-time syncing of ride data and **Stripe** Checkout for secure, dynamic gas cost-splitting.
- Deployed full-stack app on **Vercel**, ensuring zero demo-time bugs and seamless integration.