Minhazur Rakin

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Education

McMaster University — Ontario, Hamilton
Bachelors of Computer Enginering — *Sep. 2023 – Apr. 2027*

Experience

Web Developer — Dec. 2024 – Present
IEEE McMaster Student Branch — *Hamilton, Ontario*

- Built dynamic frontend user interface (UI) using Next.js enhancing user experience demonstrated through a satisfaction rate of 90% in survey
- Used Docker and Kubernetes to deploy code on Linux-based local servers, reducing monthly cost by 100%
- Created authentication system using Prisma, PostgreSQL, OAuth, and Bcrypt resulting in a streamlined login process that improved user satisfaction and reduced password reset requests

Software Team Lead — Jan. 2025 – Present
McMaster Aerial Robotics Team — *Hamilton, Ontario*

- Interviewed over 100 candidates and onboard 10 suitable team members, improving project efficiency
- Coordinates cross-functional collaboration with other sub-teams to ensure seamless integration of software
- Lead weekly team meetings to coordinate tasks, produce status reports, and ensure deadlines are met

Frontend Developer — Jun. 2024 – Sept. 2024
Baitul Jannah Islamic Center (BJIC) — *Scarborough, Ontario*

- Developed and launched a responsive web application utilizing only HTML, CSS, and Javascript boosting monthly traffic by 40%

Projects

Sign Language Translator | *Python, Javascript, OpenCV, Tensorflow, Nextjs, MediaPipe*

- Produced a real-time American sign language (ASL) communication tool using Next.JS for seamless web performance and Tailwind for a responsive and user-friendly design
- Incorporated gesture recognition with OpenCV and MediaPipe to accurately detect hand positions
- Generated large datasets and trained TensorFlow models in order to recognize ASL gestures from the user's video input and re-communicate an accurate prediction to the front-end

Robotic Rubik's Cube Solver | *Python, Arduino, Stepper Motors*

- Created a Rubik's cube solver with a Python graphical user interface (GUI), allowing users to enter colour combinations and solve the cube with Arduino-controlled stepper motors

Travel Planning Assistant | *React, Tailwind, REST APIs, OpenAI, Google APIs, Fetch.ai*

- Built an intelligent planning assistant using React and Tailwind for an interactive UI
- Integrated representation state transfer (REST) APIs from Google, OpenAI, and Fetch.ai to provide real-time responses
- Optimized API requests from frontend to Python backend to deliver quick accurate suggestions and maintain a smooth user experience

Technical Skills

Languages: JavaScript, Java, Python, C, C++, C#, HTML, CSS, Sass, SQL, Bash
Frameworks: Next.js, React, Express, Tailwind, Bootstrap, Matplotlib, Pandas, NumPy, TensorFlow, OpenCV, MediaPipe, Spring Boot
Libraries: Prisma, Redux, Axios, Framer Motion, Lodash, Chart.js
Developer Tools: Git, Node.js, PostgreSQL, Docker, Linux, Arduino