Isha Verma

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SUMMARY

- Computer Systems Engineering graduate with Full-stack and IoT development experience from internships. Skilled in Python, Java, and ReactJS with 3 years worth of projects. Targeting software roles to deliver efficient, innovative, and collaborative results.

EXPERIENCE

Web Application Developer
Paraverse Studio

September 2023 – Present
Toronto, ON

- Developed front-end features for www.paraversestudio.com using JavaScript and React, with C# backend, and optimized API calls and database queries, to improve page load speed by 25%.
- Designed real-time leaderboards and chat system with Firebase Cloud Functions, which made players keep coming back, and helped the game's player retention rate by 100%.

Software Development Intern
Mi Presence Inc.

January 2022 – December 2022
Mississauga, ON

- Created "Taximeter," an Android app adopted by taxi drivers, leveraging Java and real-time data to reduce operational delays by 30%.
- Collaborated with systems team on an IoT Accelerometer in C for vehicle monitoring services, to improve reporting accuracy through real-time sensor updates.
- Built a responsive employee communication platform with JavaScript, React, HTML/CSS, enhancing team efficiency by 25% through streamlined workflows.

PROJECTS

Generative AI WebApp
January 2025 – Febuary 2025

- Developed a Generative AI WebApp inspired by Google Gemini using ReactJS + Vite

Movie Browsing App
September 2023 – May 2024

- Developed a Full Stack Movie Browsing WebApp using ReactJS + Vite, TailwindCSS, The Movie DB API, and AppWrite Database

NFC-Powered Exam Verification Robot (Academic Project)
September 2023 – May 2024

- Engineered a NFC-based autonomous identity verification system robot using Arduino and Raspberry Pi with serial communication for the rover control, and integrated sensors' activity for exam classroom navigation, which eliminated the need for student proctors, and therefore saved labor for all exams.
- Developed a Python and Flask web app, deployed on a Raspberry Pi server, to monitor and control NFC sensors in real-time for 600+ students.
- Developed a responsive web application leveraging JavaScript, HTML/CSS with Firebase Cloud Storage to create secure dashboards with role-based access; enabled real-time monitoring for 5+ instructors and 600+ students.

IoT-Enabled Autonomous Snow Clearing Robot (Academic Project)
September 2023 – December 2023

- Built a sensor-integrated autonomous robot in C with Arduino, achieving 40% obstacle avoidance and 60% line-following accuracy.

TECHNICAL SKILLS

Languages: Java (6+ years), Python (5+ years), JavaScript (4+ years)
Frameworks & Libraries : React, Node.js, Flask, .NET, pandas, NumPy, Matplotlib
Tools: Git, GitLab, CI/CD pipeline, Vite, Google Cloud Platform, VS Code, PyCharm, IntelliJ
Databases: MySQL, Firebase (GCP), Amazon AWS
Technologies: RESTful APIs, HTML/CSS, Embedded Systems, IoT Development

EDUCATION

Carleton University
Bachelor of Computer Systems Engineering

Ottawa, ON
2019 - 2024

- **Relevant courses:** Object Oriented Programming, Algorithms and Data Structures, Operating Systems, Network Security, Database Systems, Full stack Web Development