

Isha Verma

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EDUCATION

Carleton University

Ottawa, ON

Bachelor's in Computer Systems Engineering

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

EXPERIENCE

Software Developer

September 2023 – Present

Paraverse Studio

Toronto, ON

- Developed front-end features for the product website (www.paraversestudio.com) using JavaScript, React, and HTML/CSS, while utilizing C# for the back-end, resulting in a 25% improvement in page load speed.
- Designed real-time leaderboards and chat system, increasing player retention by 30%, improving ticket resolution by 30%, and cutting leader-board load times by 35% with optimized Firebase Cloud Functions.

Software Developer

Jan. 2022 – Dec. 2022

Mi Presence Inc.

Mississauga, ON

- Developed and launched 'Taximeter,' an Android app used by over 5,000 taxi drivers to receive real-time ride data, reducing operational delays by 30%
- Built a responsive communication platform using React, HTML, CSS, and JavaScript to enhance employee collaboration, improving team efficiency by 25%.
- Collaborated on the design and deployment of an IoT Accelerometer in C language to enhance vehicle monitoring services, enabling real-time sensor interrupts to monitor and update vehicle conditions, enhancing reporting accuracy by 40%

PROJECTS

NFC-Powered Exam Verification Robot with Web Interface

Sept. 2023 – May 2024

- Engineered a mobile-first NFC-based exam identity platform, integrating an Arduino Board and RaspberryPi using serial communication for the autonomous rover control, which utilized integrated sensors' activity to navigate the exam classroom
- Developed a responsive web application using Python and Flask server on a Raspberry Pi to monitor and control NFC sensor in real-time
- Implemented a responsive web app using JavaScript, and HTML/CSS, featuring secure dashboards and role-based access for real-time exam monitoring
- Visualized GitHub data to show collaboration

IoT-Enabled Autonomous Snow Clearing Robot

Sept. 2023 – Dec. 2023

- Designed an IoT app to control and monitor an autonomous snow-clearing robot using Arduino board
- Integrated multiple sensors programmed using C and developed algorithms for efficient navigation and obstacle avoidance

Automated Email Sender App

Sept. 2022 – Oct. 2022

- Developed an Android application using Android Studio, Java and Firebase backend with an intuitive UI for scheduling and tracking automated email sends, with Firebase integration for data storage for streamlined email campaign management

TECHNICAL SKILLS

Languages: C# (4+ years) Java (6+ years), Python (5+ years), Golang, C/C++, JavaScript (4+ years), Typescript, ReactJS, Web Technologies

Frameworks: React, Node.js, Flask, JUnit, Unity3D, .NET framework, RESTful services

Developer Tools: Git, GitLab, CI/CD pipeline, Google Cloud Platform, VS Code, PyCharm, IntelliJ

Libraries: pandas, NumPy, Matplotlib

Databases: MySQL, NoSQL-GCP(firebase, ETL)