

Farhan Hossein

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SUMMARY

Software developer with hands-on experience in full-stack web development (React, Node.js), cloud infrastructure, and embedded systems. Quick to pick up new technologies and adapt to evolving technical challenges.

EXPERIENCE

Software Development Intern, Ford Motor Company

Waterloo, Ontario

May 2024 - August 2024

- Improved in-car user interactions by contributing to the development of Amazon Alexa voice integration features in Ford's infotainment systems.
- Diagnosed and resolved software issues across modules by analyzing logs and testing system behavior in real-time environments.
- Collaborated with cross-functional teams to validate feature performance and ensure compliance with integration standards.

Software Developer, General Motors

Markham, Ontario

May 2023 - April 2024

- Developed network features for GM's infotainment systems, enhancing user experience and connectivity.
- Created flowcharts to clarify internal network stack architecture and code libraries including QNX and Android.
- Designed a web application using Node.js and React to process vehicle telemetry data and generate customized charts.

Software Development Intern, General Motors

Markham, Ontario

May 2022 - December 2022

- Developed network features for GM's infotainment systems, enhancing user experience and connectivity.
- Gained experience with vehicle diagnostic protocols and products (OBDII, Neo-Fire, Vehicle Spy).
- Developed a gamified safe driving app during a GM Hackathon to promote safe driving habits.
- Applied machine learning models using PyTorch on a GPU server to predict software defects.

Site Reliability Engineer, Desire 2 Learn

Kitchener, Ontario

January 2022 - April 2022

- Contributed to the development and maintenance of D2L's internal monitoring systems.
- Developed a real-time status page from scratch using React and AWS services to improve internal system visibility.

Product Specialist, Cloud Delivery, OpenText Corporation

Waterloo, Ontario

March 2016 - June 2018

- Maintained internally hosted enterprise applications to ensure reliability and optimal performance.
- Collaborated with consulting, support, and engineering teams to resolve operational issues.
- Automated monitoring of enterprise app components through custom scripting.

Technical Analyst, OpenText Corporation

Waterloo, Ontario

July 2014 - March 2016

- Served as the first point of contact for technical inquiries regarding the Media Management product and its integration.
- Contributed to the product knowledge base and collaborated on cross-team issues to resolve software defects and implement feature requests.

Technical Support Representative / Software Tester, NeoTerra Systems

Orangeville, Ontario

December 2013 - June 2014

- Provided remote support for existing systems and new deployments.
- Participated in new product development testing.
- Maintained the company website and version tracking functionality on the company website, enhancing deployment accuracy.

Wireless Network Technician, Megawire Inc

Breslau, Ontario

May 2013 - December 2013

- Deployed wireless network infrastructure to expand coverage and improve redundancy.
- Configured high-frequency transceivers and network switches/routers as required.

Bluetooth Compliance Associate, BlackBerry

Waterloo, Ontario

May 2010 - August 2011

- Bluetooth compliance testing was conducted to maintain the quality and standards of the implementation.
- Automated test case execution and log collection by developing custom scripts to increase efficiency and accuracy.

EDUCATION

University of Waterloo

Master of Engineering - Computer and Electrical Engineering

Graduated April 2025

McMaster University

Bachelor of Technology - Software Engineering Technology (Co-op)

Graduated 2023

Conestoga College

Advanced Diploma - Electronics Engineering Technology (Co-op)

Graduated 2012

SKILLS

- **Web Development:** React, Django, Node.js
- **Cloud Deployment:** AWS, Microsoft Azure
- **Embedded Systems:** Android Open Source Project, QNX, Arduino
- **Wireless Technologies:** Bluetooth, Wi-Fi, and Mobile
- **Software Development:** Java, Python, C++, JavaScript, SQL