Hematullah Karimzada

 Hematullah-Karimzada | HemaKarim | Website | hematullahkarimzada7@gmail.com | (647) 262-5926 |
Toronto, ON, Canada

EDUCATION

Georgia Institute of Technology   2024 - Expected 2026
Master of Science (MS): Computer Science

Ryerson University   2018 - 2023
Bachelor of Engineering (BEng): Mechanical Engineering Mechatronics Stream
Relevant Courses: Mechatronics/Mechanical Design, Digital Computation & Programming, Real-Time Computer Control System, Digital Systems, Microprocessor Systems, Fundamentals of Robotics, Engineering Graphical Drawings.

WORK EXPERIENCE

Software Engineer
360 Engineering & Environmental Consulting Ltd.   November 2023 - Current

- Utilized **React** to design and implement a user-friendly interface within Microsoft Teams for the company, streamlining the collection of well-site location data and licenses, and improving productivity by **20%**.
- Integrated with public databases using **PostgreSQL** to automate data retrieval and storage, ensuring secure handling of sensitive information and compliance with data protection regulations.
- Leveraged **R** programming language for predictive analytics, implementing **Machine Learning** models to generate accurate predictions exported to **Excel** or CSV files, and improving efficiency by **100%**.

Software Engineer
Capitalize Labs   November 2022 - July 2023

- Worked on the end-to-end development lifecycle of a dynamic **Shopify** application, employing **React**, **Node.js**, and **Shopify Polaris** to meet the tailored requirements of diverse e-commerce clientele.
- Optimized codebase using **Ruby on Rails** for improved readability and maintainability, eliminating redundancies and facilitating efficient development workflows, resulting in a remarkable efficiency increase of **75%**.
- Engineered the architecture and design of the software solution, prioritizing scalability and reliability with **GraphQL** integration, achieving a **50%** reduction in query response time and ensuring seamless onboarding of forthcoming clients.

Reliability, Maintainability and Safety Engineering Intern
Bombardier Inc.   August 2021 - August 2022

- Collaborated with diverse cross-functional teams to successfully execute numerous projects, including **Safety Assessments**, Optimization initiatives, and Failure Mode and Effects Analyses (**FMEAs**).
- Delivered informative presentations and conducted training sessions for colleagues and superiors, equipping them with foundational knowledge in tech domains such as Artificial Intelligence (**AI**), **Machine Learning**, and **Deep Learning**.
- Developed an **Excel** script that optimized calculations for **Safety Requirements** and **Airworthiness failure conditions** on aircraft, reducing data entry and calculation time by an impressive **300%**.

Web Developer/Unity Developer
TechZenik   January 2021 - August 2021

- Developed a **Unity** WebGL game and seamlessly integrated it into the **Angular front-end** using **C#**, resulting in a **40%** increase in product subscribers.
- Collaborated with **back-end** developers to integrate **RESTful APIs** and optimize application performance, while concurrently developing **ASP.NET Core** Web **API** endpoints, which resulted in a **250%** boost in player retention.
- Orchestrated the migration of legacy codebase to a microservices architecture, improving scalability and maintainability, resulting in a **60%** reduction in infrastructure costs and a **30%** increase in system reliability.

SKILLS

Mechanical	**DFA/DFM**, **GD&T**, **Safety Assessments**, **FMEAs**, **Root Cause Analysis**.
CAD/Software	**AutoCAD**, **SolidWorks**, **MATLAB**, **Simulink**, **NI LabVIEW**, and **MS Office**.
Languages	**Python**, **C**, **C#**, **C++**, **HTML5/CSS3**, **JavaScript**, **Assembly**, **VHDL**, **R**, **SQL**, **NoSQL**.
Frameworks	**Angular**, **React**, **Vue**, **Express**, **Flask**, **Django**, **ASP.NET Core**, **Ruby**.
Tools	**MYSQL**, **MongoDB**, **PostgreSQL**, **Linux**, **Git**, **GitHub**, **NumPy**, **Pandas**, **GraphQL**.