

Joseph El-Ghaname

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EDUCATION

Master of Science - Computer Science

September 2020 – May 2022

University of Windsor • Windsor, ON

- Thesis: "Automotive Fault Detection Using Knowledge Graph Embedding"
- Golden Key International Honour Society Member

Bachelor of Computer Science, Honours

September 2016 – May 2020

Minor in Mathematics

University of Windsor • Windsor, ON

- Achieved Dean's Honour Roll (2016-2020) • Research focused on Machine Learning

Courses: Artificial Intelligence Concepts, Big Data Analytics and Database Design, Advanced & Practical DB Systems, Network Security, Software Verification & Testing

TECHNICAL SKILLS

Programming Languages: Python (PyTorch, SciKit-Learn), C#, Java, C, SQL, Bash

Web Development: HTML, CSS, JavaScript, PHP, Bootstrap, WordPress, UI/UX

Office Applications: Word, PowerPoint, Excel, SharePoint, Teams, WebEx, Zoom

Environments: Linux (Ubuntu, Debian, OpenSUSE/ADACS), Windows, macOS

Advanced Skills: Machine Learning, Data Modelling, Problem Solving

WORK EXPERIENCE

Research & Development Engineer

May 2022 - Present

Ford Motor Company, Essex Engine Plant • Windsor, ON

Powertrain Engineering Research and Development Center (PERDC)

- Lead, facilitated and assisted with engine testing, battery testing, as well as electric motor testing to further develop EV solutions and research capabilities through various state-of-the-art test methods, involving pre/post-test analysis
- Developed a data visualization tool for monitoring facility-wide resource usage
- Designed and implemented automation solutions, integrating local servers and cloud-based platforms including Microsoft PowerApps and Power Automate

Research Assistant

August 2020 – May 2022

Ford Motor Company, Essex Engine Plant • Windsor, ON

Powertrain Engineering Research and Development Center (PERDC)

- Assisted in designing a facility-wide data backup system to ensure zero data loss
- Prepared, preprocessed, and organized engine test data for R&D engineers

Graduate Teaching Assistant

September 2020 – September 2021

University of Windsor • Windsor, ON

- Analyzed and marked weekly assignments, labs and course examinations providing thorough feedback to ~55 students each time through tutorials

Teaching Assistant

September 2017 – September 2020

University of Windsor • Windsor, ON

- Coordinated with a remote professor, an online course of 250+ students
- Provided one-on-one support to students via office hours and email

Desktop Support Analyst Co-op

May 2018 – August 2018

Pernod Ricard • Windsor, ON

- Lead a project for deploying devices to end-users, registering them on the active directory, enrolling them with group policies, configuring software and profiles
- Responded promptly and effectively to support local and remote tickets in the queue, serving end-users across the country for various software-related issues
- Implemented team-wide usage of OneDrive and cloud-based applications