

Hosam Aldeeb

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EDUCATION

UNIVERSITY OF WATERLOO

MENG IN ELECTRICAL AND

COMPUTER ENGINEERING

Expected 2024 | Waterloo, ON

UNIVERSITY OF WATERLOO

BASc IN CIVIL ENGINEERING

April 2021 | Waterloo, ON

RELEVANT COURSES

- ECE 650 Methods Tools for Software Engineering
- ECE 651 Foundations of Software Engineering
- ECE 653 Software Testing, Quality Assurance & Maintenance
- ECE 606 Algorithm Design & Analysis
- SYDE 660A Systems Design - AI & Machine Learning
- SYDE 522 Machine Intelligence
- SYDE 532 Complex System

PROJECTS

TWEETING APP

- Demonstrated knowledge in Front-end, Back-end, Database and REST APIs by creating a CRUD app that displays full-stack principles through tweeting
- Utilized MongoDB as the Database platform, Node.js & Express.js for the Back-end, and JavaScript as the programming language

SKILLS

PROGRAMMING

- Python • C++ • SQL • Javascript
- Matlab • OOP

TOOLS

- React.js • Node.js • MongoDB
- HTML & CSS • Agile • Express.js
- Docker • ROS

OTHER

- CATIA • AutoCAD • MS Project

EXPERIENCE

SOFTWARE DEVELOPER | WATONOMOUS

Aug 2022 – Present | Waterloo, ON

- Collaborating with the Sensor Interfacing team to automate the calibration of sensors, including stereo/wide-angle cameras, LIDAR and radars using ROS, Python and Docker
- Training and deploying a deep learning neural network to predict the actions of other actors on the road, like other cars and pedestrians, to make better planning decisions

FULL-STACK DEVELOPER | 100DEVS

Jan 2022 – Present | Remote

- Collaborating with a team of developers to build modern and responsive web applications using HTML, CSS, JavaScript, Node.js, MongoDB, and React.js
- Developing an application that involves Back-end, Front-end, Rest API & QA
- Applying agile methodologies like SCRUM for project management to increase productivity by 25%

PROJECT ENGINEER (FIBER NETWORK) | ROCK NETWORKS

June 2022 – Present | Toronto, ON

- Performing Quality Control measures and validation of engineering plans, to ensure compliance with the Electrical Safety Authority Standards during the development and production stage of the fiber optics' life cycle
- Optimizing the proposed Wireline Network design by maximizing fiber drop count while minimizing the overall cost by 15%
- Coordinating with Nokia's technical team for challenges related to ISAM's Network System Design

PROJECT COORDINATOR, ELECTRICAL & TELECOM | WEBUILD

March – June 2022 | Mississauga, ON

- Worked closely with the Electrical and Telecom engineering teams to monitor and evaluate operations related to the electrical, vital pressure main, telecommunications and aerial construction to ensure compliance to standards for the \$4.6 Billion Hurontario LRT project

TECHNICAL INTERN | SIMPSON GUMPERTZ & HEGER INC

Jan – April 2020 | San Francisco, CA

- Designed metal flashing, below grade waterproofing, building façade, and fluid barrier details using AutoCAD, BlueBeam and CATIA
- Reviewed contractor submittals against project specifications for approval

DATA ENGINEERING ANALYST | MINISTRY OF TRANSPORTATION ONTARIO

May – Aug 2019 | St. Catharines, ON

- Conducted a technical vehicle crash predictive analysis using Empirical Bayes method and AASHTO standards to establish the effectiveness of a fully automated safety technology
- Utilized ArcGIS and Python to generate mass data of corresponding speeds of trial routes