

Skills

Languages: Python, Java, Javascript, C++, C#, SQL

Databases: MySQL, MongoDB

Tools/Frameworks: ASP.NET, React, Django, TensorFlow, Keras, AWS, Git

Certifications: Software Design & Architecture Specialization, IBM AI Engineering, Toastmasters International

PROFESSIONAL EXPERIENCE

Miovision - Software Developer - TDO

C#, Javascript, AWS, ASP.NET, SQL, jQuery

Sept. 2020 - Dec. 2020 Waterloo, Ontario

- Designed and implemented new analytics event tracking over whole legacy project using jQuery and integrating Segment API. Solution gained insight by over XXX.
- Developer new pattern to configure and add analytic attributes through project. Pattern is inatrusive to the codebase by leveraging the DOM hierarchy and event handlers
- Refactoring of controllers and scripts to improve maintainable, adding automated test to ensure funtionality is perserved

Miovision - Software Developer - DataLink

C#, AWS, ASP.NET, Terraform, NUnit, SQL

Jan. 2020 - Apr. 2020

Waterloo, Ontario

- Developed an event-driven service to monitor user login activity, using AWS Lambda, and EventBridge to send metrics to Datadog
- Redesigned the config architecture for a legacy application, using AWS Parameter and IAM Roles, significantly improving scalability and eliminating security vulnerabilities
- · Refactored the controller layer of a legacy product in ASP.NET, applying the SOLID principles and proper OOP design, thereby creating maintainable and testable code

Lumentum - Hermetics Automation (Software Developer)

May 2019 - Aug. 2019

Python, VB.NET, OpenCV, SQL

Ottawa, Ontario

- Designed and developed a computer vision script (OpenCV) using Python to automatically calculate soldering percentage in tubes, eliminating manual validation of over 500 images per day
- · Implemented and built an automation software in VB.NET to guide the workflow of the sealing process during the manufacturing of WSS packages, thereby improving process cycle times and reducing manual inputs
- Developed a database migration shell script to ensure consistency between local and QA database, eliminating the need to manually run stored procedures

KingTiger Technology Inc. - Junior Engineering

C++, Python, OpenCV, VBA

Aug. 2018 - Dec. 2018

Toronto, Ontario

- Automated R.A.M testing process by developing a **computer vision** software in **C++** using the **OpenCV** library to identify and locate the orientation of a R.A.M module
- Programmed a barcode scanner application in Python using the Z-Bar and dlib libraries to manage and upload company's assets to the database

Proiects

Messenger - Full Stack Web Application

- Developed a web application for communication between users utilizing token authentication, RESTful calls, and ORM (mySQL
- Software design pattern is based on MVC model; front-end generated using React, HTML, and CSS to call RESTful API, communicating to a Django REST back-end
- Developed RESTful API to retrieve users or messages from the back-end server

FishAI - Mobile (iOS) Application

- · An iOS application developed in Swift used to classify fish species based on photo taken by user
- Developed and trained deep learning neural network (CNN) using Keras, deployed model to CoreML, and created a script to build image dataset leveraging Bing API.

Education

Waterloo, Ontario

CANDIDATE OF B.ASc: HONOURS MECHANICAL ENGINEERING 2021,

ARTIFICIAL INTELLIGENCE OPTION DEAN'S LIST: F2017, W2019

University Of Waterloo

Sept. 2016 - PRESENT