

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

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

Sept. 2020 - Dec. 2020 Waterloo, Ontario

- Designed and develop new analytics feature to track user events over legacy project using jQuery and integrating with Segment API; capturing over **25** unique track events
- · Analytics feature code is isolated and reusable; allowing the solution to be used in other company products
- Developed new pattern to configure and add analytic attributes throughout project. Pattern is inatrusive to the codebase by leveraging the DOM hierarchy and event handlers

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
- Refactoring of over 20 controllers and scripts to improve maintainable, applying the SOLID principles and proper OOP design

Lumentum - Software Developer (Automation)

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

Projects

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

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

University Of Waterloo

Waterloo, Ontario

Candidate of B.ASc: Honours Mechanical Engineering 2021,

Artificial Intelligence Option

Sept. 2016 - PRESENT

GPA:3.9/4 & Dean's List: F2017, W2019