

Skills

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

Databases: MySQL, MongoDB

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

PROFESSIONAL EXPERIENCE

Miovision Software Developer - TDO

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

Aug. 2020 - Dec. 2020

Waterloo, Ontario

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Miovision Software Developer - DataLink

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

Jan. 2020 - Apr. 2020 Toronto, Ontario

- Developed an event-driven service to monitor user login activity, using AWS Lambda, EventBridge and Auth0 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)

Sep 2018 - Dec. 2018

Python, VB.NET, OpenCV, SQL

Toronto, 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

Jan 2018 - Apr. 2018

C++, Python, OpenCV, VBA

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

Amphenol Canada Engineering Assistant

May 2017 - Dec 2017

VBA, SolidWorks

Toronto, Ontario

 Streamlined sales order processes and accounts payable workflows by developing VBA scripts to pull and push sales quotation data between Excel files and forms

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
- 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

University Of Waterloo

CANDIDATE OF B.ASC: HONOURS MECHANICAL ENGINEERING 2021, ARTIFICIAL INTELLIGENCE OPTION DEANS LIST HERE? Waterloo, Ontario

Sept. 2016 - PRESENT