

Skills

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

Databases: MySQL, MongoDB

Tools/Frameworks: ASP.NET, React, Django, AWS, Git, Docker, NodeJS

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

Professional Experience

Miovision - Software Developer

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

Sept. 2020 - Dec. 2020 Waterloo, Ontario

Designed and developed new analytics framework using jQuery and Segment API, capturing 20 unique events across 200+ daily users

using AWS Parameter and IAM Roles, eliminating security vulnerabilities

Miovision - Software Developer

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

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

Added automated tests with NUnit framework, increasing test coverage by 20%

Lumentum - Software Developer

Python, VB.NET, OpenCV, SQL

May 2019 - Aug. 2019

Ottawa, Ontario

 Developed a computer vision script (OpenCV) using Python to analyze tubing sealing quality, eliminating manual validation of over 500 images per day

- Built an automation software in VB.NET to aid in manufacturing of optical devices, improving process cycle times and reducing manual inputs
- Wrote a database migration shell script to ensure consistency between local and QA database, removing 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 inspection process using C++ and OpenCV, identifying orientation of R.A.M module, saving 10+ minutes of manual sorting
- Programmed a barcode scanner application using Python, Z-Bar, and dlib, allowing users to upload over 150 company assets

Projects

RateMyIdea - Serverless Application

- Engineered a serverless application using **React**, **GraphQL**, and **AWS Lambda** for users to post, comment, and rate project ideas
- Utlized Google Trends API to search key words from project ideas to provide market insights, generated data in intuitive graphs

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, which communicates with a Django REST back-end

FishAI - Mobile (iOS) Application

- · An iOS application developed in Swift used to classify fish species based on a photo taken by the user
- Created 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, Artificial Intelligence Option

GPA: 3.9/4.0

Graduating Sept. 2021

Dean's Honours List: F2017 & W2019 - Top 10% of class