

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

• CURRENT TICKET -----

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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
- Reduce security vulnerabilities by leveraged AWS IAM roles and AWS Parameter; automated role assignment and EC2 instantiate
 using Terraform
- Added automated tests with NUnit framework, increasing test coverage by 25%

Lumentum - Software Developer

May 2019 - Aug. 2019

Python, VB.NET, OpenCV, SQL

Ottawa, Ontario

- Developed a computer vision script (OpenCV) using Python to analyze tubing sealing quality, eliminating manual validation of 500+ images per day
- Built an automation software in VB.NET to aid in manufacturing of optical devices, reducing process cycle times by 10 minutes
 and reducing manual operation
- 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

Candidate of B.ASc: Honours Mechanical Engineering, Artificial Intelligence Option

GPA: 3.9/4.0

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

Waterloo, Ontario

Graduating Sept. 2021