

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 - Full Stack Software Developer

Javascript, ¡Query, C#, AWS, NodeJS, ASP.NET

Waterloo, Ontario

Sept. 2020 - Dec. 2020

• Designed and developed an analytics framework using **jQuery** and Segment API; analyzing user behavior for product improvement by capturing **20** unique events across **300+** daily users

• Developed a microservice using **React** and **AWS lambda (NodeJS)** to upload and store study videos into **AWS S3**; increasing upload size limit from 5GB to **5TB** and improving upload performance

Miovision - Software Developer

Jan. 2020 - Apr. 2020

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

Waterloo, Ontario

- Reduced security vulnerabilities by leveraging AWS IAM roles and AWS Parameter; automating role assignments and EC2 instantiation using Terraform
- · Developed an event-driven service to monitor user login activity using AWS Lambda (NodeJS), EventBridge, and Datadog
- Created automated unit 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 tube sealing quality, eliminating manual validation of 500+
 images per day
- · Built an automation software in VB.NET to aid in the manufacturing of optical devices, reducing cycle times by 15 minutes
- Created 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

Aug. 2018 - Dec. 2018

C++, Python, OpenCV, VBA

Toronto, Ontario

- Automated R.A.M inspection process by detecting module's orientation using **OpenCV (C++)**, 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
- · Utilized Google Trends API to obtain search traffic data related to project ideas, generating data into 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 was based on MVC model; front-end generated using **React** and **HTML/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