

Skills

Languages: Python, C#, Java, C++, JavaScript, SQL **Infrastructure:** MySQL, MongoDB, AWS, Docker

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

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

Professional Experience

Miovision - Full Stack Software Developer

JavaScript, jQuery, C#, AWS, NodeJS, ASP.NET

Sept. 2020 - Dec. 2020 Waterloo, Ontario

- Designed and developed an analytics library using jQuery and Segment API, analyzing user behavior for product improvements by capturing 20 unique events across 300+ daily users
- Developed a microservice using React and NodeJS to upload and store study videos into AWS S3, increasing upload file size from 5GB to 5TB and improving upload performance
- Built a support tool feature in an ASP.NET application to search and clone studies, improving support resolve times by 20%

Miovision - Software Developer

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

Jan. 2020 - Apr. 2020 Waterloo, Ontario

- Eliminated legacy application's 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% and ensuring functionality is preserved

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 application 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 data consistency between QA and staging environments, 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 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

Rate My Idea - 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 and created user friendly graphs using the API data

Let's Talk! - Full Stack Web Application

- Developed a web application for communication between users utilizing token authentication, RESTful calls, and ORM (mySQL)
- Used MVC software design pattern; front-end generated using React and HTML/CSS, developed REST API using Django back-end

FishAI - Machine Learning 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

Dean's Honours List: Fall 2017 & Winter 2019 - Top 10% of class

Graduating Dec. 2021