

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

Sept. 2020 - Dec. 2020 Waterloo, Ontario

- · Designed and developed an analytics framework using **iQuery** 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 file size from 5GB to **5TB** and improving upload performance
- Created support tools feature in ASP.NET application to search and clone studies; decreasing 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%; 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 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 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

RateMyldea - 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, creating user friendly graphs using the API data

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

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

Waterloo, Ontario

GPA: 3.9/4.0 Graduating Sept. 2021

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