

Education

University Of Windsor)

Windsor, Ontario, Canada

B.S. IN COMPUTER SCIENCE

September 2019 - May 2023

- **Coursework:** Object Oriented Software Analysis And Design, Data Structures and Algorithms, Object Oriented Programming In Java, Database Management Systems, Systems Programming, Computer Architecture: Digital Design
- **Teaching Assistant:** Data Structures and Algorithms (Fall 2021), Programming For Beginners(Python) (Summer 2021, Fall 2020), Computer Architecture: Digital Design (Winter 2021), Introduction To The Internet (Summer 2020)
- **GPA:** 88%

Skills

Languages	Java, Python, C, C++, JavaScript, SQL, HTML, CSS, XML, Bash
Libraries And Frameworks	Tensorflow, Pytorch, Django, Flask, React.js, Express.js, pandas, JUnit, numpy, Bootstrap
Databases	MySQL, PostgreSQL, CosmoDB, MongoDB, Oracle SQL Server
Developer Tools	Microsoft Azure, Google Cloud Platform, AWS EC2, Node.js, Git, Linux, REST API

Experience

Backend Developer Intern

Toronto, Ontario, Canada

ANALYTICLY SOLUTIONS

May 2021 - August 2021

- Integrated GMail REST API with Twilio Message Service API in Python to send early warning data to registered users in **under 2 seconds** upon receiving warning data.
- Created an Azure Function App to retrieve and process early warning output from Machine Learning model.
- **Reduced response time by more than 20%** by implementing 4 API endpoints in Flask that were connected to PostgreSQL database, which sent asynchronous web requests to Azure Virtual Machines, which ultimately **saved costs by more than 10%**.
- Converted financial data using linear equations in Python through different time formats, and created over 50 Unit Tests for financial data resulting in a **99% accuracy in data conversion**.

Software Engineer Intern

Windsor, Ontario, Canada

RIIS LLC

January 2020 - April 2020

- Integrated Python, Tensorflow, and Keras to create a Machine Learning object detection algorithm to identify parked cars in a parking lot, resulting in a **mean average precision of 89%**.
- Utilized Roboflow.com to annotate more than 16000 sheep images across 700 files to train, validate, and test the Machine Learning sheep detection algorithm.
- Employed Tensorflow, Keras, and Python to create Object Detection algorithm for sheep detection resulting in the mean average precision increasing **from 73% to 93%**.
- Integrated Java Web Services REST API with MySQL database, and connected API to ETA Detroit android app to view public transportation time and dates in the Detroit Metropolitan Area.

Research Assistant - Web Development

Windsor, Ontario, Canada

UNIVERSITY OF WINDSOR: DEPARTMENT OF BIO-CHEMISTRY

September 2020 - August 2021

- Led development in the creation of an interactive notebook for Dr. Yufeng Tong's Bio-Informatics course using: Python, Jupyter Notebook, BioPython, and NGLView.
- Utilized the RCSB PDB API in BioPython, to fetch data for protein images, and rendered images with **94% accuracy**
- Optimized Python code to display protein images, by removing protein images once rendered, thus **reducing execution time by 25%**.
- Currently **learning Docker** to containerize the Jupyter Notebook, and in the process of using Kubernetes to deploy Jupyter notebook to Google Cloud Platform.

Side Projects

uwin.ai

- Currently developing a full-stack web application for the University Of Windsor's Artificial Intelligence Club on an AWS EC2 instance using: Node.js, Express.js, React.js, MongoDB, and Docker, with the intention of bringing together people of different backgrounds, that are interested in learning about AI at the University Of Windsor.

myschoolgrades.com

[Link](#)

- Hosted website on CPANEL, by integrating Django, Python, HTML, CSS, and JavaScript with MySQL database to store user's email addresses and course grades.