Faraz Naseem

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Technical 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, Bootstrap
Databases: MySQL, PostgreSQL, CosmoDB, MongoDB, Oracle SQL Server
Developer Tools: Microsoft Azure, Google Cloud Platform, Node.js, Git, Docker, REST API, Linux

Education

University Of Windsor Windsor, Ontario, Canada
Bachelor of Science in Computer Science, Minor in Mathematics *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% (3.5 / 4.0)

Experience

Backend Developer Intern May 2021 – Present
Analyticly Solutions *Toronto, Ontario, Canada*

- Reduced response time by an **average of 40%**, by implementing 4 API endpoints in Flask.
- Modularized Python code to send asynchronous web requests to Flask application, thus **reducing Azure VM costs by 40%**.
- Converted financial data through different time formats, and satisfied the integrity of 50 Unit Tests, thus achieving a **100% conversion accuracy**.
- Integrated GMail REST API with Twilio Message Service API, and Azure data pipeline to send early warning data at time intervals specified by user.

Software Engineer Intern January 2021 – April 2021
RIIS LLC *Windsor, Ontario, Canada*

- Implemented object detection algorithm with Tensorflow using Convolutional Neural Networks, to identify cars in a parking lot, and achieved a **mean average precision of 89%**.
- Annotated more than 16000 sheep images across 700 files to train, validate, and test Object Detection algorithm to find sheep.
- Optimized Object Detection algorithm using Tensorflow for detecting sheep resulting in accuracy increasing **from 73% to 93%**.
- Integrated Java Web Services API with MySQL database, and connected API to ETA Detroit android app to view public transportation time and dates in the Detroit Metropolitan Area.

Undergraduate Research Assistant - Web Development September 2020 – August 2021
University Of Windsor *Windsor, Ontario, Canada*

- 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 Protein Bank 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

myschoolgrades.com | *Django, Python, JavaScript, HTML, CSS, SQL, MySQL*

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

uwin.ai | *Node.js, Express.js, React.js, JavaScript, HTML, CSS, MongoDB*

- Currently developing a full-stack web application for the University Of Windsor's Artifical Intelligence Club on an AWS EC2 instance using: Node.js, Express.js, React.js, MongoDB, and Docker.