Captain Duck

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EDUCATION

ABC UNIVERSITY **New York, NY**
Master of Engineering in Computer Science Sept. 2019 - May 2020
XYZ UNIVERSITY **Toronto, ON**
Honours Bachelor of Science in Computer Science Sept. 2015 - May 2019

SUMMARY OF QUALIFICATIONS

- Proficient in Web development using JavaScript, Node.js, Bootstrap, AngularJS and React
- Skilled in Object-Oriented programming and application development using Python, Java and C/C++
- Experience in database design and development using MySQL and MongoDB
- Familiar with Machine Learning and Computer Vision based development using Python, MATLAB and R

WORK EXPERIENCE

DIGITAL PATHOLOGY **Toronto, ON**
Computer Vision Intern May 2019 – Jul. 2019

- Implemented multiple image feature extraction techniques and applied to medical image processing to encode medical images for human tissues
- Conducted a statistical regression analysis to compare expression power of various geometrical and statistical features
- Developed a Web application using JavaScript and PHP for facilitating team communication and data sharing among researchers from multiple institutions

EFG CORP. **Toronto, ON**
Junior Software Engineer Sept. 2018 – May 2019

- Implemented automation acceptance and regression tests suite using Test-Driven Development technique
- Implemented functionality and performance improvements for the company's website using JavaScript and Spring framework.
- Simulated heavy workload against a user registration application using Apache JMeter, the most popular database performance test suite
- Refactored front-end code to produce one single set of Web pages that can adapt to both desktop and mobile devices, increasing maintainability of the code base
- Developed a database migration test based on MySQL to ensure backwards compatibility of web applications

XYZ UNIVERSITY **Toronto, ON**
Full Stack Developer May. 2017 – Sept. 2018

- Developed and deployed a web application in Node.js and AngularJS for the purpose of collecting audio recordings and response time produced by over 200 participants in a study of human cognitive system
- Improved existing audio processing algorithm and lowered the audio processing latency to below 10ms
- Designed a MySQL database to store user information and data collected in the experiment

PROJECTS

Condo Rating Website

- Developed a RESTful style Web application that supports searching for nearby condos around a central location using Google Map API
- Developed a Web application that allows users to write reviews and to rate the targeted condo using JavaScript, Node.js and MongoDB, the web application has been deployed and supported on Heroku

Automatic Region Filling & Removal Application

- Performed object recognition training using mask-RCNN to detect the undesired objects in the given images
- Implemented and improved the CBIR algorithm to automatically erase the undesired objects and to perform image inpainting to fill in small image gaps

Automated Class Enrollment Application

- Implemented a class enrollment application that monitors available slots of given classes with specific frequency and deployed on a Raspberry Pi-based device
- Automated the process of logging into XYZ university student portal and enrolling in classes using Python and Selenium

Warehouse Management System

- Designed and developed a warehouse management system that supports loading, ordering, picking, replenishing, logging and sequencing management using Java. Designed class architecture of the system using different design patterns
- Developed unit tests and achieved 96% code coverage