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Education

Queen's University

Kingston, Canada

BACHELOR'S OF APPLIED SCIENCE IN COMPUTER ENGINEERING (Dean's Scholar)

Sept. 2020 - April. 2024

- Schulich Leader: Awarded Canada's most prestigious scholarship for entrepreneurial leadership skills and academic excellence, valued at \$100,000
- Relevant Courses: Data Structures & Algorithms (C/C++), Object-Oriented Programming (Java), Data Analytics (Python), Operating Systems (Linux)

Work Experience.

Ubineer Remote - Toronto, Canada

NLP DEVELOPER

July 2022 - Sept. 2022

- Extracted and algorithmically-parsed data from 15 SEC fillings using natural language processing methods such as **NLTK** and **BeautifulSoup4**
- · Developed 12 pre-processing and post-processing functions to refine and chunk the data
- Built the data pipeline using APIs, workflows, and GCP cloud functions to extract recent financial information for stakeholders

Bank of Canada Ottawa, Canada

SYSTEMS DEVELOPMENT ENGINEER

May 2022 - Aug. 2022

- Spearheaded the integration of CyberArk DNA, SailPoint and ServiceNow context data to report on 12 Used Cases to identify vulnerable accounts
- Implemented **PowerBI**, **MySQL** and Microsoft **PowerApps** to automate data processing and the application of custom functions to 100,000 accounts
- Incorporated the Agile framework using JIRA and Confluence to monitor the project's progress and document major changes

Queen's University Kingston, Canada

TEACHING ASSISTANT: APSC221 Engineering Economics

TEACHING ASSISTANT. AF SCZZI ENGINEETING ECONOMICS

- Marked assignments/exams and proctored midterms
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- Answered course-related questions in discussion forums on D2L

Extracurricular Activities

QMIND: Queen's Machine Learning and AI Hub

Kingston, Canada

Jan. 2022 - Aug. 2022

INNOVATION DESIGN TEAM

Sept. 2021 - Present

- Created a climate prediction model by deploying a convolutional neural network using Python, Scikit-Learn and Pandas
- Customized a user interface to see graphs/predictions using time-series data modelling and regression analysis
- Presented and published a research paper at CUCAI (Canadian Undergraduate Conference on Artificial Intelligence)

Google's Student Developer Club

Kingston, Canada Sept. 2021 - Present

EXECUTIVE TECHNICAL TEAM

- Launched the GDSC Website for the Queen's Chapter using **HTML**, **JavaScript** and **CSS**
- Tasked with the development and maintenance of the Qlicker app using Node.js

Projects

iYashi | Independent Personal Project | July 2022

- · Designed and 3D-printed motorized rehabilitation device that aids stroke victims to regain motor functionality
- · Programmed a servo motor to adaptively apply resistance for optimal training using a PID loop algorithm on an Arduino
- · Serialized the data through protocol buffers to allow for secure data transfer using ProtoBuf and Solidity for smart contracts

ReUnite | Blockchain Prize

TOHacks June 2022

- · Deployed software to verify refugee data in camps and aided them to find their families, cater resources, and new homes
- Implemented Azure Face API to authenticate refugee faces and personal information to sensitive databases
- Applied smart contracts via **Solidity** and **Ethereum** to be easy-to-understandable and translatable for sponsors and refugees

Clarity | BEST WEARABLE GADGET

MakeUofT | Feb. 2022

- · Designed interactive smart glasses using Google Cloud Vision's API to detect the emotion of a person in real-time through a modular camera
- Facilitated social interactions to assist people with developmental disorders to read four social cues
- Used Raspberry Pi OS, SolidWorks and Python to include capabilities such as the weather, reminders and schedules

ReCoin | 3RD PLACE | UofT Hacks IX | Jan. 2022

- · Launched an app that utilizes an image-classification neural network to identify waste captured by the user's camera
- Utilized Pytorch and ResNet to achieve a 94% accuracy on the validation and testing sets after 8 epochs of training
- · Alerts users of drop sites for their recyclable products at partnered local businesses and to exchange for credit

Technical Skills

Programming Languages
Python Libraries | Frameworks
Infrastructure Tools

Python, C/C++, Java, HTML, CSS, JavaScript, VHDL, Assembly, MATLAB NLTK, Scikit-Learn, Matplotlib, NumPy, Pandas, PyTorch, Tensorflow AWS, Google Cloud, Git, Linux

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