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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 pre-processing and post-processing functions to clean 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

Marked assignments/exams and proctored midterms

• 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
- Developed 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 AI)

Google's Student Developer Club

Kingston, Canada Sept. 2021 - Present

EXECUTIVE TECHNICAL TEAM

- Created 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

- Developed 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, C/C++, Java, Git, HTML, CSS, JavaScript, VHDL, Assembly, MATLAB, Solidworks Python Libraries | Frameworks: NLTK, Scikit-Learn, Matplotlib, NumPy, Pandas, PyTorch, Tensorflow

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