

Adshayan Balendra

Computer Engineering 2A | University of Waterloo

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SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS

Frameworks: Flask, Pandas, Django, NumPy, SciKitLearn, Cypress, Selenium, Matplotlib, Plotly, SQLAlchemy

Tools/Technologies: Git, JIRA, Jupyter Notebook, Power Apps, Dynamics 365, Postman, Json, Jwt, SQLite

EXPERIENCE

Software Developer

Brampton, CA

Loblaw Companies Limited

Sept. 2020 - Dec. 2020

- Rebuilt and deployed team's flagship Microsoft PowerApp to reduce paperwork, repetition of tasks and improve efficiency for warehouses nationwide
- Leveraged Oracle/Teradata databases and Microsoft Dynamics 365 platforms harnessing warehouse data of over 2000 employees across 4 distribution centers to retrieve and use data in near real-time for end users
- Upgraded the back-end client to transition a suite of Dynamics applications to support a new Microsoft client interface
- Built a proof of concept virtual map system to promote safe and minimum contact intra-office travel by providing colleagues with real-time and accurate crowd heatmaps for Loblaws company wide hackathon

Instructor

Toronto, CA

Motala Business School

Oct. 2020 - Dec. 2020

- Co-developed a Python for Data Analysis course, creating lecture material on topics such as Pandas & Numpy
- Harnessed Jupyter Notebooks to create exercises lab material to enrich course content and promote hands on learning

Quality Assurance & Research Student

Toronto, CA

Center for Global eHealth Innovation @ University Health Network

Jan. 2020 - Apr. 2020

- Developed and executed test plans for medical grade mobile and web applications to meet product quality standards and compliance to ISO 13485 for medical devices
- Established an automated testing suite within Cypress IO, for regression and end-to-end testing; reducing validation testing time by 94%
- Worked with the Associate Director to assess the viability and requirements of data visualizations for a researcher platform, harnessing real time clinical data with tools such as **Elastic Stack & R Shiny**
- Collaborated with product managers and developers within a scrum-based agile workflow, using tools such as JIRA

PROJECTS

📌 Diabetes Doctor - Flask, Pandas, Sklearn

- Co-developed a diabetic platform that screens users for diabetes and track their glucose levels & other medical data
- Built out the entire back-end which involved user creation, authentication, data collection using Python and Flask
- Designed and implemented a CRUD Rest API to handle patient and test data harnessing a Sqlite database
- Diagnoses user through a random forest classifier machine learning model with an accuracy of 98% on test data

📌 COVID-19 Dashboard - Python, Pandas, Plotly

- Built an interactive real-time COVID-19 dashboard that analysed and visualized John Hopkins COVID data
- Implemented a machine learning model to predict number of cases deaths two weeks into the future using **Prophet**

📌 Detection of Diseases - Python, Sklearn, Pandas

- Developed a supervised machine learning model for the detection of Parkinson's and breast cancer
- Attained a 95% accuracy for both models using a XGBClassifier and a linear SVM respectively

📌 NBA Analysis - Python, Matplotlib, Plotly, Sklearn

- Integrated a NBA api and built interactive lists and charts to depict NBA data to effectively compare players and stats
- Developed a machine learning model to predict the number of points a player will score in a season with a 96% accuracy

EDUCATION

University of Waterloo

Sept. 2019 - Apr. 2024

BaSc in Honours Computer Engineering, Coop

Term GPA: 3.9