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