

m roshan2M

Skills

Languages Java, Python, JavaScript, Bash, C/C++, Racket, SQL, MATLAB

Tools NodeJS, React, REST, force.com, AWS, Azure, matplotlib, scikit-learn, Git, CircleCI, Jira

Experience

KOOLTRA (7) Toronto, ON

Associate Software Engineer

May. 2018 - Sep. 2018

- Developed features for a web forex platform on force.com and AWS with 1,000+ daily transactions in a dynamic startup.
- Built REST endpoints in Java and Apex to receive foreign exchange quotes and execute trades through Oanda.
- Wrote Python and Bash scripts to automate data deployment to Salesforce developer orgs and run CircleCI tests, working in a team of 5. Increased mean sprint points per team per week by \sim 15%.
- Architected automatic trade confirmation emails in Apex and performed mock unit testing using fflib-apex-mocks.

Projects

KAGGLE (7) Waterloo, ON

Data Science Projects

July. 2018 - Present

- Used logistic regression in scikit-learn to predict the survival of passengers on the Titanic with ∼80% accuracy. Used seaborn and matplotlib to plot correlations between variables.
- Built a random forest and neural network pipeline using scikit-learn to classify toxic Wikipedia comments.

FINANCIAL OUTLIER DETECTION ()

New Haven, CT

Yale Hackathon Project

Dec. 2017

- Parsed financial data from the CSV files in the JPMorgan Chase dataset and stored input in DataFrames using Pandas.
- Implemented linear regression and Gaussian distributions in SciPy using key features in the data to identify outliers.
- Built a front-end using HTML5/CSS3. Retrieved CSV files from user using Flask and displayed results using matplotlib.

CHESS GAME & ENGINE (7)

Mississauga, ON

Personal Project

Aug. 2017 - Dec. 2017

- Using object-oriented principles in Java and Swing to implement the board and GUI, abstraction for pieces, moves and other features. Implemented a chess engine using Minimax. Working on a database of chess openings and Alpha-Beta pruning to find
- optimal moves.

DESTIN (?) Toronto, ON

Global AI Hackathon Project (2nd Overall)

Jul. 2017

- Developed a chat-bot that responds to gueries about different locations around the world in a team of 6.
- · Utilized Microsoft Azure's LUIS (language processing) API and integrated components using NodeJS.
- Earned 2^{nd} place at the hackathon and presented the chat-bot project to \sim 40 people.

Activities

WATERLOO SAILBOT (7) Waterloo, ON

Controls Team Member

Oct. 2017 - Present

- Tested machine learning frameworks compatible with ROS and the Jetson hardware for the autonomous sailboat.
- Presented benefits and drawbacks of the frameworks to a team of 10.
- Built and tested a classifier to detect an orange buoy using the Inception model in Tensorflow.

Honours.

Bloomberg Code B AI Challenge, Finished 3rd in the competition and earned the UI design prize. 2018 Waterloo, ON 2017 Len Richardson Award, Awarded to the graduating student with the most passion for innovation. Mississauga, ON 2015 - 2017 Mathematics Contests, Achieved top 5% in the Fermat, Hypatia & Cayley Waterloo Math Contests. Waterloo, ON

Education

University of Waterloo

Waterloo, ON Sep. 2017 - Present

Bachelor of Computer Science (Co-op) | Class of 2022

- Planning to double major in Computer Science and Combinatorics and Optimization. (Average: 85%)
- Online coursework: Machine Learning (Coursera) in MATLAB, Computational Thinking and Data Science (edX) in Python, Advanced C++ Programming (Udemy).