

COMPUTER SCIENCE · UNIVERSITY OF WATERLOO

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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 () Toronto, ON

Associate Software Engineer

May. 2018 - Sep. 2018

- Developed features for a foreign exchange back-office platform built using force.com and AWS with 1,000+ daily trades in a dynamic startup.
- Designed REST API endpoints in Java and Apex to receive foreign exchange quotes and execute trades through Oanda.
- Wrote Python and Bash scripts to automatically deploy data to Salesforce environments and run CircleCI tests, working in a team of 5 developers. Increased mean sprint points by 15% per team each week.
- Architected automatic trade confirmation emails in Apex and implemented mock unit tests using fflib-apex-mocks.

Projects_

KAGGLE (7) Waterloo, ON

Data Science Projects

Jul. 2018 - Present

- Implemented logistic regression in scikit-learn to predict the survival of passengers on the Titanic with 80% accuracy. Plotted correlations between variables using seaborn and matplotlib to find relevant features.
- Built a neural network in scikit-learn to detect and classify toxic comment vectors from a Wikipedia dataset.

FINANCIAL OUTLIER DETECTION (?)

New Haven, CT Dec. 2017

Yale Hackathon Project

- 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 • Designed the board, pieces, moves in Java with a Swing GUI and a task bar that facilitates both player and AI games.

- Constructed a chess engine using Minimax and currently using Alpha-Beta pruning to increase move search depth.

DESTIN (7) Toronto ON

Global AI Hackathon Project

Jul. 2017

- Developed a chat-bot that responds to queries about different locations by analyzing Google searches, in a team of 6.
- Leveraged Microsoft Azure's LUIS API to understand search responses 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 - Mar. 2018

- 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 orange buoys 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. (GPA: 3.7)

Coursework: Machine Learning (Coursera) in MATLAB, Computational Thinking and Data Science (edX) in Python, and Advanced C++ Programming (Ūdemy).