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SKILLS

Languages: Java, C#, C++, R, Python, JavaScript/

TypeScript, Ruby, HTML/CSS

Web/Mobile: React, Redux, Knockout, Angular, Ember,

Express, Node, Meteor, Rails, Android, React Native

Cloud: Azure, AWS DB: SQL, MongoDB

Machine Learning: Tensorflow, Keras, Scikit-Learn, Weka

Visualization: Shiny, Tableau, Excel

EXPERIENCES

Ivey Business School - Research Assistant

Supervised by Dr. Y. Shi

Aug 2018 - Present

London, ON

- Writing python scripts for transposing and aggregating unstructured financial data into more humanreadable tables and visualizations.

Microsoft - Software Engineering Intern

Azure Cloud Geneva Monitoring Team

May 2018 - Jul 2018 Redmond, WA

- Designed and launched an end to end service based on serverless cloud computing infrastructure that allows for designated response individuals to configure custom automation workflows involving monitoring and incident management enrichment actions such as drill down recommendations, alert emails, and daily health status monitoring; projected to free up over 30,000 engineering hours per year.
- Created an API to allow for the automation framework to be extensible, allowing actions from third party providers to be added seamlessly.



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Magnet Forensics - Software Developer Intern Software Tools and Support Team

May 2017 - Aug 2017

Waterloo, ON

- Developed features for filtering data, including the ability to add labels and outlier emission; resulted in a more streamlined workflow for investigators dealing with increasingly large data sets; decreased average time to build a case by an estimated 12%.
- Built a custom dashboard visualization framework allowing users to aggregate data from multiple sources.



Cambridge Brain Sciences - Student Developer

Puzzle Behaviour Team

Jan 2017 - Apr 2017

London, ON

Recognized a need to make academic neurological research sampling more scalable and ported puzzles to a more modern tech stack; increased weekly visits from 1,000 to 3,000.



Western University - Undergraduate Researcher

Innovation Centre for Information Engineering, Supervised by Dr. X. Wang

Nov 2015 - Aug 2016 London, ON

Developed machine learning models for indoor locationing and activity recognition based on WiFi signal strengths and implemented a technique for mitigating the impact of phone sensor differences; resulted in location recall and precision of 92% and 88%, and activity recall and precision of 76% and 81%.

PUBLICATIONS & PROJECTS

A Novel WiFi-based Indoor Localization System

2017

- IEEE CSCWD, DOI 19.1109/CSCWD.2017.8066713

NHL Prediction Models and Visualizations - http://garyshen.me/#hockey

2017

- Research on leveraging machine learning models for predictive and descriptive data driven hockey analytics.

Mitigating Sensor Differences for Phone-based Human Activity Recognition

2016

- IEEE SMC, DOI 10.1109/SMC.2016.7844783

Smart Bed Monitoring System

2015

- Non-invasive system for monitoring sleep related health by applying machine learning to pressure sensor data.

EDUCATION

Western University (BESc) and Ivey Business School (HBA)

Sep 2015 - Apr 2020 (Expected)

Software Engineering (94% Average) and Business Administration (85% Average)

- Awards: 2018 Ontario Professional Engineers Foundation for Education Scholarship (\$1,500), 2017 Ivey Alumni Association Toronto Chapter HBA Award (\$24,000), 2015 National President's Scholarship (\$50,000), 2016 NSERC Undergraduate Student Research Award (\$6,000)
- Activities: Ivey Technology Club Co-president, Mustang Capital Quantitative Trading Analyst