GARY SHEN

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EXPERIENCE & SKILLS

Microsoft — **May 2018 - July 2018**
Incoming Software Engineering Intern — *Redmond, WA*

- Interning on the Azure Cloud team.

Magnet Forensics — **May 2017 - August 2017**
Software Developer Intern — *Waterloo, ON*

- Developed features using C#, .NET, and ReactJS for a metric tracking and visualization dashboard; changes resulted in a more streamlined internal development workflow and were used across all development teams
- Added new multithreading and previewing functionalities for the product licensing tool, reducing wait times in the license renewal process from 90 minutes to less than 15 minutes

Cambridge Brain Sciences — **January 2017 - April 2017**
Student Developer — *London, ON*

- Recognized a need to make academic neurological research sampling more modern and provided a scalable solution by porting puzzles to Ruby/Rails and ReactJS; increased weekly uses from 1,000 to 3,000

University of Western Ontario — **November 2015 - August 2016**
Undergraduate Researcher — *London, ON*

- Developed an indoor locationing model in Java based on WiFi signal strengths that was more time efficient than existing methods by a factor of 6
- Built a machine learning based activity recognition Android app, created a model using Weka for mitigating the impact of smart phone sensor differences to improve recall from 76% to 92% and precision from 84% to 88%
- 2016 NSERC Undergraduate Student Research Award ($6000)

Languages: Java, C#, C++, R, SQL, JavaScript, HTML/CSS, Python, Ruby/Rails
Technologies: Android, React Native, ReactJS, Redux, Meteor, ExpressJS, NodeJS, MongoDB, Tableau, Tensorflow, Weka, Machine Learning, Computer Vision, Web Scraping

PROJECTS & PUBLICATIONS

NHL Prediction Models and Visualizations
- Predictive and descriptive NHL analytics using R, Tensorflow, and Tableau

A Novel WiFi-based indoor localization system
- Shen, G., Yin, X., Wang, X., Shen, C.
- IEEE CSCWD 2017
- DOI 19.1109/CSCWD.2017.8066713

Smart Bed Monitoring System
- System for monitoring sleep related health via a decision tree model generated using Weka

Mitigating sensor differences for phone-based human activity recognition
- Yin, X., Shen, G., Wang, X., Shen, W.
- IEEE SMC 2016
- DOI 10.1109/SMC.2016.7844783

EDUCATION & ACTIVITIES

University of Western Ontario (BESc)
September 2015 - April 2020 (Expected)

- 94% Average, 4.0 GPA in Software Engineering
- 2015 National President's Scholarship ($50,000)

Ivey Business School (HBA)
September 2017 - April 2020 (Expected)

- 85% Average, 3.8 GPA in Business Administration
- 2017 Ivey Alumni Association Toronto Chapter HBA Award ($24,000)

Activities: Co-president of Ivey Technology Club, Quantitative Trading Analyst for Mustang Capital, Sponsorship Committee Member for Thames Valley Science and Engineering Fair
Interests: Hockey, Table Tennis, Camping, Hiking