# William Yang

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## EDUCATION

### BASc in Computer Engineering
Expected May 2020 | Waterloo, ON
Expected Option in Software Engineering
Department of Engineering

### NanoDegree In Machine Learning Engineering & Full Stack Development
Completed April - June 2016
Certified By www.Udacity.com
Co-Created by Google, Amazon, AT&T, and Github

## LINKS

Github:// **WilliamY97**
LinkedIn:// **williamyang97**
Twitter:// **WilliamY97**

## COURSEWORK

### UNDERGRADUATE
C++ & Java Programming
Object Oriented Development
Design Patterns & Architecture

### Online Courses
Intro To Computer Science
Intro To Algorithms
Machine Learning
Inferential Statistics
Full Stack Development

## SKILLS

### PROGRAMMING
Python • Java • C++ • HTML • CSS • Javascript • SQL • AngularJS • Git • Bash • C#
Familiar:
PHP • Android • Ruby • Rails • Node.js

## INTERESTS

Algorithms • Machine Learning • Data Visualization • Full-Stack Development • Design • Foreign Languages • Painting

- President of MKV Residence Council
- Class Academic Representative
- Intramural Ultimate Frisbee

## EXPERIENCE

### DBRS INCORPORATED | Software Engineer
May 2016 – September 2016 | Toronto, ON

- Built a data pipeline to transport Intercom API data to SQL server for analytics on DOMO
- Wrote multiple SQL C# scripts to map structured finance data together
- Improved Insight API to change analyst preferences depending on location
- Wrangled bond ratings data with C# scripts for back fill into SQL server
- Participated in daily stand-ups with engineering/product management teams in Toronto & NYC
- Developed financial tools for end-users using C#, MVC.NET, SQL, Javascript, & AngularJS

### WATSAT | SATELLITE TEAM | Command & Data Handling
September 2015 – June 2016 | Waterloo, ON

- Worked on the software team to create functions that produced qualitative results based off of sets of telemetry data using C++
- Re-built entire site from scratch to cater to sponsors and team recruitment

## PROJECTS

### SUPERVISED LEARNING USING DYSPHONIA MEASUREMENTS TO DIAGNOSE PARKINSON'S
June 2016 | Toronto, ON
Tested supervised learning classifiers on data set to obtain highest prediction rate. Final result of 89.46% accuracy after tuning parameters.

### UNSUPERVISED LEARNING ON CUSTOMER SEGMENTS
May 2016 | Toronto, ON
Used unsupervised learning techniques to see if any similarities exist between customers, and how to best cluster customers into distinct categories.

### SUPERVISED LEARNING FOR STUDENT INTERVENTION
May 2016 | Toronto, ON
Developed a model that can predict the likelihood that a given student will pass, thus helping diagnose whether or not an intervention is necessary.

### AUG TOUR AUGMENTED REALITY | Yale Hacks - Yale University
November 6-8th 2015 | New Haven, CT | Back-End Developer
Built backend of iOS app using Node.js that parsed through Google Maps API. Recipient of 2000 dollar competition prize in a team of four people.

### BOA SEARCH ENGINE
June 2015 | Markham, ON
I built a web crawler to find links on different pages and an index to find relevant URLs for a search word. The engine then ranks pages for the best result.

## AWARDS

| | | |
|---|---|---|
| 2015 | Top Heritage Preservation App | Yale Department of Computer Science |
| 2015 | Provincial Scholarship Recipient | Professional Engineers of Ontario |
| 2015 | Nortel Networks Scholarship | University of Waterloo Engineering |
| 2015 | Waterloo President's Scholarship | University of Waterloo Engineering |
| 2015 | Leadership Excellence Award | Waterloo Engineering Society |