

# 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](http://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