

# William Yang

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## EDUCATION

**BASC IN COMPUTER ENGINEERING**  
Expected May 2020 | Waterloo, ON  
Expected Option in Software Engineering  
University of Waterloo

**NANODEGREE IN MACHINE  
LEARNING ENGINEERING & FULL  
STACK DEVELOPMENT**  
Completed April - August 2016  
Certified By [www.Udacity.com](http://www.udacity.com)

## LINKS

Github:// [WilliamY97](#)  
LinkedIn:// [williamyang97](#)  
HackerRank:// [WilliamY97](#)

## COURSEWORK

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

**ONLINE COURSES**  
Intro To Computer Science  
Algorithms & Data Structures  
Full Stack Development  
Machine Learning  
Debugging Methods

## SKILLS

**PROGRAMMING**  
Python • C++ • C# • HTML • CSS •  
Javascript • SQL • Git • Bash

**Frameworks, Libraries, & Tools:**  
Flask • Scikit-learn • AngularJS • JQuery  
• Jinja2 • SQLAlchemy • MySQL • SQL  
Server • Fiddler

## 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

- Created a data pipeline to transport API bulk load to DOMO for analytics
- Wrote scripts to automate business processes & map structured finance data
- Developed improvements to core API to keep up with evolving business logic
- Refactored frontend for dashboard to improve interface for analysts
- Built financial tools for end-users using C#, MVC.NET, SQL, Javascript, & AngularJS

**WATSAT | SATELLITE TEAM | COMMAND & DATA HANDLING**  
September 2015 – September 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

**FINALYTICS PORTFOLIO ASSESSMENT PLATFORM**

August 2016 | Toronto, ON  
Built to allow users to analyze equities on a dashboard and optimize their portfolios. It offers news reports and data visuals on quantitative data pertaining to stock.

**SUPERVISED LEARNING USING DYSPHONIA MEASUREMENTS  
TO DIAGNOSE PARKINSON'S**

June 2016 | Toronto, ON  
Built supervised model to diagnose patients with Parkinson's disease. Final result of 89.46% prediction accuracy after tuning support vector machine.

**CUSTOMER CLASSIFICATION MODEL**

May 2016 | Toronto, ON  
Used gaussian mixture model clustering to see if any similarities exist between customers, and how to best cluster customers into distinct categories.

**AUG TOUR AUGMENTED REALITY | YALE HACKS - YALE UNIVERSITY**

November 6-8th 2015 | New Haven, CT | Back-End Developer  
Built backend of application that displays augmented objects in real locations of interest. 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