

# 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

- Velocity Entrepreneurship Residence
- Ex-President of MKV Residence Council
- Class Academic Representative

## 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**

May 2016 | Toronto, ON  
Built to allow users to analyze equities on a dashboard and optimize their portfolios with quantitative data pertaining to stock pulled from BlackRock, NY Times, & Yahoo Finance APIs.

**CATALOGIT - RECORD MANAGEMENT SYSTEM**

May 2016 | Toronto, ON  
Developed a content management system using the Flask framework in Python. Authentication is provided via OAuth and all data is stored within PostgreSQL.

**SUSHILICIOUS - RESTAURANT MAPPING**

May 2016 | Toronto, ON  
A single-page web application that displays a Google Map of an area. Users can search all included sushi restaurants and, when selected, additional information about it is presented from the FourSquare API.

**SUPERVISED PARKINSONS VOCAL ANALYSIS MODEL**

June 2016 | Toronto, ON  
Built supervised model to diagnose patients with Parkinson's disease from their vocal data. Final result of 91.4% prediction accuracy after tuning support vector machine.

**CUSTOMER CLUSTER CLASSIFICATION MODEL**

June 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.

## AWARDS

|      |                                      |                                       |
|------|--------------------------------------|---------------------------------------|
| 2016 | Top Finance & Data Visualization App | PennApps @ University of Pennsylvania |
| 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          |