

# 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 - September 2016  
Certified by Udacity

## LINKS

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

## COURSEWORK

### ONLINE COURSES

Algorithms  
Data Structures  
Full Stack Development  
Relational Databases  
Debugging Methods

## SKILLS

### PROGRAMMING

Languages:  
Python • Ruby • C++ • C# • JavaScript  
SQL • Git • Bash • Matlab

Front End:  
Bootstrap • AngularJS • jQuery • D3.js

Back End:  
Rails • Flask • SQL Server • Unix •  
Vagrant • Heroku • App Engine

## INTERESTS

Basketball • Snowboarding • Foosball •  
Table Tennis • Foreign Languages •  
Photography • Board Games

- Participating in HackerRank challenges
- Learning about software development

## EXPERIENCE

### SHOPIFY SOFTWARE ENGINEERING INTERN

January 2017 – April 2017 | Ottawa, ON

- Currently developing platform with the Merchant Inventory Team

### DBRS INCORPORATED SOFTWARE ENGINEERING INTERN

May 2016 – September 2016 | Toronto, ON

- Created a graph search tool that modeled all analyst transactions on nodes to visualize their business relationships
- Built the Rating Committee and Metric tools used to accelerate process of rating modeling
- Developed REST interfaces on Insights API to keep up with new platform features

### WATERLOO SATELLITE TEAM COMMAND & DATA HANDLING

Design Team | Waterloo, ON

- Implemented configuration system to allow alteration to telemetry data collection rate
- Pulled telemetry data from satellite and built internal graph tool to visualize information on control systems

## PROJECTS

### FINALYTICS - PORTFOLIO ASSESSMENT PLATFORM

Python, Flask, Javascript, jQuery, MySQL  
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

Python, Flask, OAuth, PostgreSQL  
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

Javascript, Knockout.js, jQuery  
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

Python, Scikit-Learn, NumPy  
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.

## AWARDS

|      |                                       |                                    |
|------|---------------------------------------|------------------------------------|
| 2016 | Top Finance & Data Visualization App  | PennApps @ UPenn                   |
| 2016 | 2nd Place Global Technology Hackathon | DBRS Incorporated                  |
| 2015 | Top Heritage Preservation App         | Yale Department Computer Science   |
| 2015 | Provincial Scholarship Recipient      | Professional Engineers of Ontario  |
| 2015 | Nortel Networks Scholarship           | University of Waterloo Engineering |
| 2015 | Leadership Excellence Award           | Waterloo Engineering Society       |