

# 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 • Materialize • AngularJS  
jQuery • D3.js • Sass

#### Back End:

Flask • Rails • SQL Server • OAuth2  
PostgreSQL • SQLAlchemy • Jinja2  
Vagrant • Heroku • App Engine

## INTERESTS

Algorithms • Systems Design • Football  
Table Tennis • Foreign Languages •  
Photography • Board Games

- Participating in HackerRank challenges
- Learning more about web development

## EXPERIENCE

### SHOPIFY SOFTWARE ENGINEERING INTERN

January 2017 – April 2017 | Ottawa, ON

- Aided in development of multi-location based inventory system
- Built internal tool and maintenance tasks to aid in transition to multi-location

### 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
- Wrote scripts to automate business processes map structured finance data
- Developed REST interfaces on Insights API to keep up with new platform features

### WATERLOO SATELLITE TEAM COMMAND & DATA HANDLING

Extracurricular Activity | 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

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  
2016 2nd Place Global Technology Hackathon  
2015 Top Heritage Preservation App  
2015 Provincial Scholarship Recipient  
2015 Nortel Networks Scholarship  
2015 Leadership Excellence Award

PennApps @ UPenn  
DBRS Incorporated  
Yale Department Computer Science  
Professional Engineers of Ontario  
University of Waterloo Engineering  
Waterloo Engineering Society