

# William Yang

<http://williamyang.me>  
william.yang@edu.uwaterloo.ca | 647.990.3253

## 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](#)  
Medium:// [@WilliamY97](#)

## HACKERRANK

**ALGORITHMS - 86TH PERCENTILE**  
WoC 30 Algorithm Contest - Bronze  
Medalist

## SKILLS

### PROGRAMMING

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

Front End:  
Ember.js • jQuery

Back End:  
Rails • Flask • PostgreSQL • Unix •  
Vagrant • Heroku • App Engine

Data Science:  
Scikit-learn • Pandas

Infrastructure:  
Shell Scripting • Datadog

## EXTRACURRICULARS

- University of Waterloo Poker Studies
- Waterloo Satellite Team

## INTERESTS

Basketball • Snowboarding • Foosball •  
Table Tennis • Guitar • Foreign Languages

## EXPERIENCE

### SHOPIFY SOFTWARE ENGINEERING INTERN

January 2017 – April 2017 | Ottawa, ON | Ruby on Rails

- Introduced position and image integration into CSV product import and export, allowing 250k+ merchants to revise products by spreadsheet
- Implemented context into internal inventory tracking report, informing internal team about quantity after adjustments of products
- Worked with data team to build models for an inventory reconciliation tool using Python, scanning millions of products for inconsistencies in attributes
- Developed data integrity job that automatically deployed maintenance tasks, fixing attribute of product variants in the process

### DBRS INCORPORATED SOFTWARE ENGINEERING INTERN

May 2016 – September 2016 | Toronto, ON | .NET Framework

- Created a graph search tool modelling transactions onto nodes, allowing 10k+ analysts to understand their business relationships visually
- Built the Rating Committee and Metric tools used by thousands of analysts to accelerate process of model rating
- Developed REST interfaces on internal API, allowing it to expose new features

### WATERLOO SATELLITE TEAM COMMAND & DATA HANDLING

September 2015 - Present | Waterloo, ON | C, Assembly, Python

- Currently building the real-time operating system for version 3.0 of the satellite, assisting in the development of the core on-board-computer
- Re-built team site from scratch, allowing for easier navigation and access

## PROJECTS

### FINALYTICS - PORTFOLIO ASSESSMENT PLATFORM

Built to allow users to analyze equities on a dashboard and optimize their portfolios with data pertaining to stock pulled from BlackRock, NY Times, & Yahoo Finance

### CATALOGIT - RECORD MANAGEMENT SYSTEM

Developed a catalog system using the Flask framework in Python. Authentication is provided via Google OAuth and all data is stored within PostgreSQL

### FANTASY BASKETBALL TOURNAMENT SCHEMA

Built a PostgreSQL database schema to store the results of a tournament. I provided a number of queries to report the results of the tournament and determine the winner

### SUPERVISED PARKINSONS VOCAL ANALYSIS MODEL

Trained supervised model to diagnose patients with Parkinson's disease from their vocal data with 91.4% accuracy - wrote a technical report on the results

### LEARNING JOURNAL

Personal repository I contribute to containing new things I learn about software development on a day to day basis

## 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 | Leadership Excellence Award           | Waterloo Engineering Society      |