

# William Yang

<http://williamyang.me>  
[william.yang@edu.uwaterloo.ca](mailto: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

## 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

Design Team | 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