

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
Machine Learning
Debugging Methods

SKILLS

PROGRAMMING

Languages:
Python • C++ • C# • HTML • CSS
JavaScript • SQL • Git • Bash

Front End:

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

Back End:

Flask • MySQL • SQL Server • OAuth2
PostgreSQL • SQLAlchemy • Jinja2
Vagrant • AWS • Google App Engine

INTERESTS

Algorithms • Machine Learning • Design
Full-Stack Development • Foreign
Languages • Photography • Board Games

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

EXPERIENCE

DBRS INCORPORATED | FULL STACK SOFTWARE ENGINEER
May 2016 – September 2016 | Toronto, ON

- Wrote scripts to automate business processes & map structured finance data
- Developed improvements to core API to keep up with new platform features
- Refactored frontend for dashboard to improve interface for analysts
- Created a hackathon-winning graph search tool that modeled all transactions on nodes to visualize their business relationships
- 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

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, Machine Learning
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

Python, Scikit-Learn, NumPy, Machine Learning
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 @ 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