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 iOS & 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 • Swift • Matlab • C • Go

Front End:
Ember.js • jQuery

Back End:
Rails • Flask • PostgreSQL • MongoDB
Unix • Vagrant • Heroku

Data Science:
Scikit-learn • Pandas

Infrastructure:
Shell Scripting • Datadog • Docker

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, Python

- Introduced position and image integration into CSV product import and export, allowing 250k+ merchants to revise products by spreadsheet
- 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 | ASP.NET, C#, MongoDB

- 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, C++, 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
- Setup and tested customized thermal sensors on micro-controller and scripted data to Matlab

PROJECTS

INTER-TASK CONCURRENCY MANAGEMENT SYSTEM
Implemented kernel routines to assist in memory management. Allows for inter-task communication by message passing with threads using semaphore patterns in C

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

MAPPEDIN - STUDENT SOCIAL NETWORK IOS APP
Developed an app with a map that shows information posted by other students - accessing networked data using URL framework, Core Location, and Mapkit

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

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