William Yang

http://williamyang.me

william.yang@edu.uwaterloo.ca | 647.990.3253

EDUCATION

BASc in Computer Engineering
Expected April 2020 | Waterloo, ON
University of Waterloo, Third Year
Honors Co-operative Program

LINKS

Github:// **WilliamY97**
LinkedIn:// **williamyang97**
HackerRank:// **WilliamY97**
Medium:// **@WilliamY97**

HACKERRANK

Algorithms - 86th Percentile
WoC 30 Algorithm Contest - Bronze
Medalist

COURSEWORK

Algorithms and Data Structures
Computer Networking
Operating Systems
Distributed Systems
Machine Learning

SKILLS

PROGRAMMING
Languages:
Python • Ruby • C# • JavaScript • SQL •
Git • Matlab

Front End:
Ember.js • jQuery • AngularJS

Back End:
Rails • Flask • PostgreSQL • MongoDB •
Unix • Node.js

Data Science:
Scikit-learn • Pandas • TensorFlow

Infrastructure:
Shell Scripting • Heroku • Docker • AWS
(EC2) • Jenkins

INTERESTS

Basketball • Snowboarding • Foosball
Table Tennis • Board Games • Reading

EXPERIENCE

IBM INC. Infrastructure Engineering Intern
September – December 2017 | Ottawa, ON | Bash, Node.js, Jenkins, Docker
- Architected and developed a tool for API testing of the TM1 server and containerized it with Docker, enabling load-balancing of incoming test requests
- Set up continuous delivery plan in Jenkins to record REST API responses from previous builds and generate updated tests with minimal intervention

SHOPIFY INC. Software Engineering Intern
January – April 2017 | Ottawa, ON | Ruby on Rails, Python, Ember.js
- Introduced position and image integration into CSV product import and export, allowing 250k+ merchants to revise products by spreadsheet
- Implemented history feature into inventory tracking, informing support team, developers, and product managers about adjustments of millions of products
- Built a demo called Influx in Rails & Ember.js that allowed merchants to broadcast their products with social media influencers

DBRS INC. Software Engineering Intern
May – September 2016 | Toronto, ON | .NET, MongoDB, AngularJS
- 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 adopted by thousands of company analysts to accelerate process of model rating

WATSAT SATELLITE DESIGN TEAM Software Engineer
September 2015 - Present | Waterloo, ON | Ruby on Rails, Javascript
- Developed web interface that pulls data for graphical visualizations, aiding in the detection of anomalies for the battery, processor, and sampler sensors

PROJECTS

FINALYTICS - PORTFOLIO PLATFORM goo.gl/TBiWcc
Built to allow users to analyze equities on a dashboard and optimize their portfolios with insights to stock pulled from BlackRock, NY Times, Yahoo Finance APIs

CATALOGIT - RECORD MANAGEMENT SYSTEM goo.gl/5p2hm8
Developed a catalog system using the Flask framework in Python. Authentication is provided via Google OAuth and all data is stored within PostgreSQL

SUPERVISED PARKINSONS VOCALIZATION MODEL goo.gl/XurHJi
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

CONVOLUTIONAL NEURAL NET IMAGE CLASSIFIER goo.gl/brRk9f
Classified images from the CIFAR-10 dataset using a convolutional layer, max pool layer, and fully connected layer resulting in an accuracy of 67.6%

AWARDS

2016	Top Finance & Data Visualization App	PennApps Spring 2016
2016	2nd Place Global Technology Hackathon	DBRS Incorporated
2015	Top Heritage Preservation App	Yale Hacks Fall 2015
2015	Leadership Excellence Award	Waterloo Engineering Society