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
Web Security
Machine Learning

SKILLS

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

Front End:
Ember.js • jQuery

Back End:
Rails • Flask • PostgreSQL • MongoDB
Unix

Data Science:
Scikit-learn • Pandas • TensorFlow

Infrastructure:
Kubernetes • Heroku • Docker • AWS

INTERESTS

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

EXPERIENCE

IBM INC. Software Engineering Intern
September 2017 – December 2017 | Ottawa, ON | Javascript, Node.js, Jenkins
- Developing the hybrid cloud platform, used by eighty percent of Fortune 500 companies who depend on the product
- Currently building on the testing framework that supports IBM TM1 server development

SHOPIFY INC. 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
- Implemented history feature into inventory tracking, informing support team, developers, and product managers about adjustments of millions of products

DBRS INC. Software Engineering Intern
May 2016 – September 2016 | Toronto, ON | .NET, MongoDB, Javascript
- 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

WATSAT SATELLITE DESIGN TEAM Software Team Lead
September 2015 - Present | Waterloo, ON | C++, Python, TensorFlow
- Developing core prediction software used to track objects and detect their future locations with computer vision, LiDAR tracking, and statistical analysis

PROJECTS

FINALYTICS - PORTFOLIO PLATFORM goo.gl/TBiWcc
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 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

PARKINSONS VOCAL ANALYSIS 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 NET IMAGE CLASSIFICATION 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 70%

AWARDS

Year	Award	Organization
2016	Top Finance & Data Visualization App	PennApps @ UPenn
2016	2nd Place Global Technology Hackathon	DBRS Incorporated
2015	Top Heritage Preservation App	Yale Dept. of Computer Science
2015	Provincial Scholarship Recipient	Professional Engineers of Ontario
2015	Leadership Excellence Award	Waterloo Engineering Society