

William Yang

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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 | Bash, Node.js, Jenkins

- Currently building the REST API 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
- Architected inventory ETL pipeline to detect errors in product records on billions of data records

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 | 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

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

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