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

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	Leadership Excellence Award	Waterloo Engineering Society