

# Waun Broderick

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## Skills

Languages

C#, Python, Javascript, Java, SQL, PHP, HTML5, CSS3, UML

Frameworks &  
Environments

Hadoop, Angular, .NET, Git, Bash, Unix, Creative Cloud,  
LAMP Stack, MERN Stack, Android Studio

Knowledge &  
Interests

Full Stack Development, Machine Learning Pipelines, Big Data,  
Database Architecutre, Cloud Infrastructure, Algorithms,  
Data Analysis, Model Validation, Feature Engineering, NLP, CNNs

## Education

Trent University

HBSc Computing & Information Systems Spec. in Software Engineering

## Experience

DS Solutions Engineer  
July 2017 – Present  
Toronto

TD Data Science and Analytics Rotational Program

○ Software Developer - Rotation One

Lead designer and developer or contributor on several projects and  
initatives around the TD Personal Bank Data Science team

Utilized: Python, Java, NLTK, Gensim, Keras, SQL, Spark, Hive

○ FullStack Developer - Rotation Two

Designer and developer of several data-intensive fully deployed  
and in use TD applications and systems.

Utilized: C#, .Net, Javascript, Angular, Adobe CC, D3, HML5/CSS3

Big Data / Android Dev  
May 2017 – Sept 2017  
Waterloo

TD 55 Technology Center Waterloo

- Helped integrate and train new workers with tools and procedures  
on our Hadoop infrastructure, as well as building a dashboarding tools  
and systems to better communicate infrastrucutre states and situations

- Implemented and fixed features on the Android development team.

Played an active part on the development of an internal POC App

Front-End Developer  
Feb 2016 – Aug 2017

PCS4Kids – United Nations Initative

- Helped to direct the new initiative of re-releasing the PCS4Kids  
software service for their international UN mandate for child education.

- As a front-end developer was able to not only build a large piece of  
the application but also contribute to technological and design decisions  
that eventually earned me a spot as a lead developer and design guru  
due to my eye for detail and well developed communication skills.

Academic Assistant  
Mar 2016 – Apr 2018

Trent University

- Worked alongside faculty in various computer science classes to provide feedback and guidance for the academic betterment of current students. This extended to class, assignments, test and exams.

Corporal  
2011–2018

Canadian Armed Forces

- Served 7 years with the CAF as an Infantry soldier where I performed duties in a variety of environments, with diverse arrays of tasks  
- Refined my leadership ability through the many given opportunities, and learned the endless capability of a team regardless of circumstance through teamwork, determination, attention to detail, and grit.

## Projects

Lead Researcher  
2017–2018

Undergraduate Machine Learning Thesis

Used collections of fMRI data to build a system that would be a viable framework using computer vision to determine predispositions to neurodegenerative diseases through an exploration in the differing accuracies of several machine learning methods, architectures, and systems

Utilized: Python, VTK, tensorflow, AWS, Numpy, Scikit, Keras

Co-Creator  
2016–2017

‘Depth’ – A Water Quality Safety Alert System

Created a product that monitors a water systems and alerts citizens at the possible presence of contamination. Was involved in the physical product design and build, electrical wiring, web-app creation, testing, data-analysis/visualization, and documentation.

Utilized: Apache, MySQL, PHP, C++, Arduino, JavaScript, Electronics

Creator  
2018

INPROD (Intelligent Processor of documents)

Designed and developed a software tool currently used by several lines of business in TD Bank to intelligently automate the process of multiple document ingestion with a system that can image, optimize, understand, and extract information to a high accuracy.

Utilized: Python, OCR, NLP, Parallel Processing, Qt, Keras, nltk

## Extra Activities

Director of Electric City Hacks

Trent Computer Science Society President

Communitech Campus Ambassador

Microsoft Student Partner

Mathematics Tutor at Tutor Doctor

Trent University Orientation Week Leader

Trent Computer Science Student Board Member