

Brian Chen

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Education

University of Toronto

2015 – 2020

- HBS. Software Engineering Co-op CS stream
- **Teaching Assistant:** Introduction to Computer Science, Introduction to Software Engineering
- UofT Scholars Entrance Award and Deans List

Awards

- **1st Place** 2017 Microsoft Coding Challenge
- **4th Place** 2017 UofT The Hub Startup Challenge
- **5th Place** 2016 University of Michigan MHacks 8
- **1st Place** 2015 Operations Research Challenge
- **1st Place** 2015 Marc Garneau Math Competition

Experience

DeepLearn.ing

Toronto, Canada

Machine Learning Engineering Intern

Winter 2017

- Developed experience in full stack engineering by working with Ruby, Scala, Rails, Spark, Python, and Cassandra and React in the development of an enterprise-level machine learning platform
- Implemented Machine Learning processing modules containing logic for feed-forward neural network classification, regression, XGBoost, Random Forest, and others through TensorFlow and PySpark
- Managed Kubernetes deployments, Docker images, Ansible deploy scripts, and CI/CD pipelines in Jenkins

Trent University

Toronto, Canada

Software Engineering Intern

Summer 2017

- Led the development of MC², a collaborative math equation editing web-app using JavaScript and JQuery
- Deployed application using Socket.io and Node.js to serve over 700 students in the University of Toronto and Trent University for official coursework and help in Introductory Calculus and Statistics

Ivy Global

Toronto, Canada

Software Engineering Intern

Summer 2015

- Led the development of a New SAT test simulation and academic feedback tool by creating the backend using T-SQL, AJAX, and ASP which is now live and used by over unique 500 users monthly
- Built redundancies and security measures to prevent SQL injection and wrote scripts to automate data entry

Personal Projects

Space2Vec *An extensively documented adventure into using ML for astronomy*

Winter 2017

- Employed convolutional neural nets with backpropagation to classify transient images as supernovae, attaining accuracies of 94%+ over 200K test images with misdetection rate < 3.1% and false positive rate < 2.3%
- Worked with Project Jupyter, and Pandas and explored feature engineering, XGBoost and Random Forest

Let Me Know *A news aggregation site - finalist in MHacks 8 and earned \$3000 in seed funding*

Fall 2016

- Implemented a web scraper in Python using Django to extract news articles from Twitter, Facebook, Reddit
- Generated summaries of recent and trending events, live twitter feeds, and relevant whitelisted readings

Technical Skills

- Proficient in C, C++, Java, and Python programming through decorated competitive programming
- Experienced with in HTML, CSS, ASP, SQL, JavaScript, React, Scala, Ruby on Rails, and Haskell
- Knowledgeable in machine learning, project management, DevOps, deployments, and cloud computing
- Outstanding in technical evangelism – extensive experience in public speaking and conveying tech concepts

Extracurriculars

Computer Science Enrichment Club

University of Toronto

President, Co-Founder, ACM-ICPC Coach

2016 – Present

- Delivered seminars on topics such as the Blockchain, machine learning, etc. to over 400 university students
- Organized and hosted coding competitions and hackathons (**Hack the Valley**) with over 1,000 participants