

Brian Chen

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Education

University of Toronto

2015 – 2020

- Honors B.S. in Computer Science, Minor in Statistics
- **3x Teaching Assistant:** Introduction to Computer Science (I & II), 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 UofT Operations Research Challenge
- **1st Place** 2015 Marc Garneau Math Competition

Experience

Salesforce

San Francisco, USA

Software Engineering Intern

Summer 2018

- Infrastructure Team. Details currently under NDA

Dessa

Toronto, Canada

Machine Learning Engineer Intern

Winter 2018

- Assisted in the full-stack development of an enterprise-level machine learning platform by employing Ruby, Scala, Rails, Spark, Python, Cassandra and React to simplify complex ETL pipelines and deliver fast data-driven insights
- Implemented various Machine Learning modules containing logic and redesigned a neural network classification pipeline using Pandas, Tensorflow and Spark resulting in up to 6x training time reduction and 10% increase accuracy performance
- Managed Kubernetes deployments, Docker images, Ansible deploy scripts/playbooks, increased test coverage of code from 64% to over 93% and also created suites of comprehensive frontend user acceptance and end to end tests using Cypress.io

Trent University

Toronto, Canada

Software Engineering Intern

Summer 2017

- Led the development of MC², a collaborative math equation editing web-application created using React and MySQL
- Deployed application using Socket.io and Node.js to serve over 700 students concurrently, currently used in Trent University and the University of Toronto's Introduction to Calculus and Introduction to Statistics as the official web collaboration tool

Ivy Global

Toronto, Canada

Software Development Intern

Summer 2015

- Used HTML/CSS/JS and T-SQL, AJAX, ASP to develop a SAT preparation tool which is now used by over 500 users monthly
- Built security measures to prevent scripting attacks and SQL injections and wrote scripts to increase workflow efficiency

Technical Skills

Languages/Markup: Python, C, C++, Java, Scala, Bash, Node.js, React.js, JavaScript, HTML, CSS, ASP, JSP, SQL

Other: Jenkins, Pandas, Jupyter, Spark, Kubernetes, Docker, Vagrant, Ansible, Git, AWS, GCP, Cypress, Tomcat, Ant

Projects & Involvement

Space2Vec

space2vec.com

An extensively documented open-source adventure into using Machine Learning for astronomy

Winter 2017

- Employed convolutional neural nets with backpropagation to classify transient images as supernovae, attaining accuracies upwards of 94% over 200K test images (800K training) with a misdetection rate of < 3.1% and a false positive rate < 2.3%
- Worked with Jupyter Notebooks, Pandas, Keras and explored feature engineering, Random Forest and XGBoost techniques

Let Me Know

letmeknow.news

A news and content aggregation site - finalist in MHacks 8 and earned \$3,000 in seed funding

Fall 2016

- Implemented a web scraper in Python using Django to extract trending news articles from Twitter, Facebook, Reddit
- Generated overviews of recent events including summaries, sentiment, whitelisted readings, and media perspectives

Computer Science Enrichment Club

csec.club

Official University of Toronto Scarborough CS Club - President, Co-Founder, ACM-ICPC Coach

2016 – Present

- Delivered seminars on topics such as the blockchain, machine learning, web dev, etc. to over 400 university students
- Organized and hosted coding competitions (**UTSCode**) and hackathons (**Hack the Valley**) totaling over 1,500 participants