Brian Chen

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Education

University of Toronto
2015 – 2019

- Honors B.Sc. in **Computer Science**, Co-op Program
- **6x Teaching Assistant:** Introduction to Computer Science (I & II), Introduction to Software Engineering, Engineering of Large Software Systems

Awards

- **1st Place** 2017 Microsoft University Coding Challenge
- **1st Place** 2015 UofT Operations Research Challenge
- **3rd Place** 2018 Facebook University Coding Challenge
- **4th Place** 2017 UofT The Hub Startup Challenge
- **5th Place** 2016 University of Michigan MHacks 8

Experience

Riot Games
Los Angeles, CA

Software Engineering Intern – *Player Platform Team*
Incoming Summer 2019

Salesforce
San Francisco, CA

Software Engineering Intern – *Salesforce Infrastructure Team*
Summer 2018

- Saved teams over 60 hours weekly on build failures by creating a Jenkins build monitoring tool which tracked, triaged, and compared failures against known errors using key heuristics, automating failure detection and issue tracking workflows
- Developed dashboard using Tomcat/JSP which provided insights into build processes - tracked failing tests across builds and jobs and correlated Jenkins events with infrastructure performance metrics to identify root causes of reoccurring issues

Dessa
Toronto, ON

Machine Learning Engineer Intern – *Flagship Platform Team*
Winter 2018

- 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, ON

Research and Development Intern – *Computer Science, Math and Stats Department*
Summer 2017

- Co-authored and published a peer-reviewed paper investigating students' online mathematical communication abilities
- Led the development of MC^2, a collaborative math application created using React, Redux, MySQL, Socket.io and Node.js which is being by 700+ students used as the official tool of introductory statistics and calculus classes at Trent and UofT

Technical Skills

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

Other: Travis, Jenkins, Kubernetes, Docker, Vagrant, Ansible, Git, Azure, AWS, GCP, Cypress.io, Tomcat, Ant, Maven

Projects & Involvement

Space2Vec – *An extensively documented open-source adventure into using Machine Learning for astronomy*
space2vec.com

- Deployed convolutional neural nets with backpropagation to classify transient images as supernovae, achieving 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 – *A news and content aggregation site - finalist in MHacks 8 and earned $3,000+ in seed funding*
letmeknow.news

- Developed a news aggregation platform using Node.js, Python, Django, and Angular to extract trending readings from Twitter, Reddit & Facebook APIs. Conducted sentiment analysis through MS Azure API and summarization using NLP algorithms
- Built dashboard of real-time trending events including summaries, sentiments, breaking news, and media perspectives

CS Enrichment Club – *President, Co-Founder, ACM-ICPC Coach of The Official University of Toronto CS Club -*
csec.club

- Delivered seminars on topics such as CI/CD, 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