

# PHILIP XU

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## EDUCATION

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### Brown University

Sc. B. in Applied Math and Computer Science

*September 2016 - Present*

## EXPERIENCE

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### CS1470 - Deep Learning, Brown University

Sep. 2017 - Dec. 2018

*Teaching Assistant*

- Automated grading of source by building a cloud based deep learning grading framework. Complete with Slack based automated staff workload distribution, modular test suite system, and MOSS anti-plagiarism.
- Wrote labs and assignments on GAN, CNN, RNN, Google Cloud, Auto Differentiation, and more.
- Provided assistance for students both conceptually and practically, worked closely with the professors and the rest of the teaching staff to provide a smooth and fulfilling educational experience.

### IBM

May. 2018 - Sep. 2018

*Software Development Intern*

- Team leader in intern project. Established an Agile based work flow, led daily stand-ups and retrospectives. Designed overarching goals and biweekly iteration goals. Created production, testing, and deployment plans.
- Utilized deep learning and natural language processing techniques to build slack bot that learns from IBM slack history and mimics human response to technical questions.
- Built full stack web application in HTML, CSS, JS, Node, Python Django.
- Worked extensively with RNN models in Tensorflow, Google Compute Engine, IBM Watson and Cloud technology, and Slack API.

### Samsung R&D Institute - Machine Learning Lab

Jun. 2017 - Aug. 2017

*Research Intern*

- Researched and developed a neural model using Generative Adversarial Networks for automatic colourization of sketch designs for uses on new Samsung flagship smartphones.
- Optimized and compressed networks for adaptation onto smartphones using deep pruning and implementation of mobile neural network architectures.
- Worked extensively with Generative Adversarial Networks, Deep Convolutional Networks, Python, Tensorflow, Keras, NumPy.

## TECHNICAL STRENGTHS

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### Languages

Python, Java, HTML, CSS, Javascript, Node.js, SQL, C++

### Skills & Modules

Agile, Keras, Tensorflow, Caffe, NumPy, SciPy, Pandas, Django, Flask  
Google Cloud, AWS, MongoDB

## RELEVANT COURSES

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### Core Courses

Discrete Structures / Probability  
Intro to Software Engineering  
Deep Learning  
Machine Learning  
Computational Linguistics

### Other Courses

Linear Algebra  
Statistical Inference  
Applied Ordinary Differential Equations  
csciStartup