

# 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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**IBM**  
*Software Development Intern*

May. 2018 - Sep. 2018

- First place in Massachusetts IBM Intern Project Showcase, praised for design, practicality, and innovation.
- Team lead in award winning intern project. Established an Agile based work flow, led daily stand-ups and retrospectives. Developed overall project goals and conducted biweekly Sprint planning sessions.
- Utilized machine learning, natural language processing, big data analysis, and blockchain technologies to build Slack Bot that learns from IBM slack history and mimics human response to technical questions.
- Built cloud based fullstack project with the principles of Continuous Deployment and Software as a Service.
- Worked extensively with Tensorflow, Google Compute Engine, IBM Watson, Slack API, and Blockchain.

**CS1470 - Deep Learning, Brown University**  
*Teaching Assistant*

Sep. 2017 - Dec. 2018

- Automated grading of course 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.

**Samsung R&D Institute - Machine Learning Lab**  
*Research Intern*

Jun. 2017 - Aug. 2017

- Researched and developed a neural model using Generative Adversarial Networks for automatic colorization 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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<b>Languages</b>	Python, Java, HTML, CSS, Javascript, Node.js, SQL, C++
<b>Skills &amp; Modules</b>	Agile, Project Management, Deep Learning, Blockchain, 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

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<sup>0</sup>References and further experience upon request.