

# PHILIP XU

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## EDUCATION

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### **Brown University**

*September 2016 - Present*

Sc. B. in Applied Math and Computer Science

## EXPERIENCE

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### **CS1470 - Deep Learning, Brown University**

Sep. 2017 - Dec. 2018

*Teaching Assistant*

- Built automated, cloud based grading framework with Slack based work flow distribution.
- Wrote labs and assignments on GAN, CNN, RNN, Google Compute Engine, Tensorflow 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 educational experience.

### **IBM**

May. 2018 - Sep. 2018

*Development Intern*

- 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.
- Build full stack web application in HTML, CSS, JS, Node, Python Django.
- Worked extensively with RNN models in Tensorflow, Google Compute Engine, IBM Watson 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 colorization of sketch designs for uses on new Samsung flagship smartphones.
- Optimized and compressed networks for adaptation onto smartphones.
- Worked extensively with Generative Adversarial Networks, Deep Convolutional Networks, Python, Tensorflow, Keras, NumPy.

### **HiScene Inc.**

Aug. 2017 - Sep. 2017

*Research Intern*

- Developed a photographic data collection and labeling Android application for machine learning.
- Developed and implemented Caffe models for image recognition on Android devices for uses in augmented reality.

### **Applico Inc.**

June. 2015 - Aug 2015

*Intern Software Engineer*

- Implemented a full stack social media platform.
- Developed iOS application, Android application, JavaScript based web-application, Node.js based backend deployed on Heroku Cloud utilizing MongoDB Database, Raspberry Pi to hardware interface.

## TECHNICAL STRENGTHS

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### **Computer Languages**

Python, Java, HTML, CSS, Javascript, Node.js, Meteor.js

### **Libraries & Modules**

Keras, Tensorflow, Caffe, NumPy, Pandas, Django, Google Cloud, AWS

## 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

## EXTRA-CIRRICULAR

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Treasurer of Brown Swing Club