

# 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

Teaching Assistant

Sep. 2017 - Dec. 2017

- Assisted in the continuous development of the course curriculum in a manner supporting a hand-on and research-focused approach to student learning.
- Provided assistance for students both conceptually and practically.
- Worked closely with Professor and the rest of the teaching staff to provide a smooth 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.
- Worked extensively with Generative Adversarial Networks, Deep Convolutional Networks, Python, TensorFlow, Keras, NumPy.

### HiScene Inc.

Research Intern

Aug. 2017 - Sep. 2017

- 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.

Intern Software Engineer

June. 2015 - Aug 2015

- Implemented a social media platform.
- Developed iOS application, Android application, JavaScript based web-application, Node.js based back-end 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

## 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