

PHILIP XU

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EDUCATION

Brown University

September 2016 - Present

Sc. B. in Applied Math and Computer Science

EXPERIENCE

CS1470 - Deep Learning, Brown University

Sep. 2017 - Dec. 2018

Teaching Assistant

- 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.

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 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

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

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