

PHILIP XU

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EDUCATION

Brown University
Sc. B. in Applied Math and Computer Science

September 2016 - Present

EXPERIENCE

IBM May. 2018 - Sep. 2018
Software Development Intern

- 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 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.

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

Languages	Python, Java, HTML, CSS, Javascript, Node.js, SQL, C++
Skills & Modules	Agile, Project Management, Software Architecture Design, Deep Learning, Natural Language, Blockchain, Full Stack Web Development, Keras, Tensorflow, Caffe, NumPy, SciPy, Pandas, Django, Flask
	Cloud technology, Serverless Functions, Google Cloud, AWS, MongoDB

ACHIEVEMENTS

Ranked first in Brown Data Science Tournament (Camelot x BDS Data Science)

Ranked first in IBM Massachusetts Intern Project Showcase (all IBM Mass locations - IBM Littleton, Burlington, Cambridge)