PHILIP XU

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EDUCATION

Brown University *September 2016 - Present*
Sc. B. in Applied Math and Computer Science, GPA 3.75

EXPERIENCE

Microsoft May. 2019 - Sep. 2019
Software Development Intern
· Worked with the Azure Media Services - Media Intelligence Team to build a facial recognition and tracking pipeline for surveillance camera feeds and other commercial needs.
· Created an automatic data annotation pipeline as well as a comprehensive tracking algorithm benchmarking pipeline to experimentally evaluate performances under different customer scenarios.
· Leveraged OpenCV API to modularize and optimize existing pipeline. Worked extensively with facial detection, tracking algorithms, and deep learning based recognition models.

IBM May. 2018 - Sep. 2018
Software Development Intern
· Utilized machine learning, natural language processing, big data analysis, and blockchain technologies to build cloud based Slack application that learns from IBM slack history and respond to technical questions.
· 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.

Brown University Sep. 2017 - Dec. 2018
Teaching Assistant: CS147 - Deep Learning, CS146 - Computational Linguistics
· Automated grading of course by building a cloud based deep learning grading framework.
· 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 GAN model for auto-colourization of sketch designs for uses on smartphones.
· Optimized and compressed networks for deployment onto smartphones using deep pruning and mobile neural network architectures.

TECHNICAL STRENGTHS

Languages	Python, C++, Java, Golang, HTML/CSS/Javascript, Node.js, SQL, MongoDB
Skills & Modules	Project Management, Software Design, Full Stack Web Dev
	Deep Learning, NLP, Blockchain, Keras, Tensorflow, PyTorch, Caffe
	NumPy, SciPy, Pandas, Django, Flask, Cloud technology, GCP, AWS, Azure

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)

References and further experience upon request.