Philip Xu

Student · Data Scientist · Software Engineer

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Education

Brown University — *Rhode Island, USA*

Sc. B. in Applied Math and Computer Science — *September 2016 - PRESENT*

Choate Rosemary Hall — *Connecticut, USA*

High School Diploma — *September 2012 - 2016*

Experience

Samsung Research and Development Institute - Machine Learning Lab — *Beijing, China*

Research Intern — *June. 2017 - August. 2017*

- Developed a neural model using Generative Adversarial Networks for automatic colourization of sketch designs.
- Optimized and compressed networks for adaptation onto smartphones.
- Worked extensively with Generative Adversarial Networks, Deep Convolutional Networks, Python, Tensorflow, Keras, NumPy.

CS1470 - Deep Learning, Brown University — *Providence, USA*

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.

Applico Inc. — *New York City, USA*

Intern Software Engineer & Platform Developer & Backend Developer — *June. 2015 - August 2015*

- Implemented a social media platform.
- Utilized Node.JS, Javascript, HTML, CSS, Objective C, Java, Python, C, Raspberry Pi, Heroku, MongoDB.
- 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.

Research, Optical Character Recognition(Dr. Matthew Bardoe) — *Connecticut, USA*

Researcher for Artificial Neural Network Based Optical Character Recognition — *Sep.2015 - June. 2016*

- Researched means of converting optical images of characters into text information using artificial neural networks.
- Implemented prototype that users can use to construct and train neural networks for their OCR uses.

Skills

Computer Science

Languages and Libraries

- Java, Python, Objective C, HTML, CSS, Javascript
- JQuery, Bootstrap, Node.js, Meteor.js, MongoDB, SQL
- Keras, Tensorflow, NumPy, Pandas

Software

Software Usage

- Pycharm, IntelliJ IDEA, XCode, Sublime Text 2/3, VIM, GNU Nano, Illustrator, Photoshop
- Terminal, SSH, Git