

# Philip Xu

STUDENT · SOFTWARE ENGINEER · BACKEND DEVELOPER

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“Forward unto dawn.”

## Education

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### Brown University

SC. B. IN APPLIED MATH AND COMPUTER SCIENCE

Rhode Island, USA

September 2016 - PRESENT

### Choate Rosemary Hall

HIGH SCHOOL DIPLOMA

Connecticut, USA

September 2012 - 2016

## Skills

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### Computer Science

LANGUAGES AND LIBRARIES

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

### Software

SOFTWARE USAGE

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

## Experience

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### Samsung Research and Development Institute - Machine Learning Lab

RESEARCH INTERN

Beijing, China

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.

### Applico Inc.

INTERN SOFTWARE ENGINEER & PLATFORM DEVELOPER & BACKEND DEVELOPER

New York City, USA

June. 2015 - August 2015

- Implemented a social media platform for company employees.
- Utilized Node.JS, Javascript, HTML, CSS, Objective C, Java, Python, C, Raspberry Pi, Heroku Cloud Services, MongoDB NoSQL Database.
- 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)

RESEARCHER FOR ARTIFICIAL NEURAL NETWORK BASED OPTICAL CHARACTER RECOGNITION

Connecticut, USA

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.

## GitHub Online Repositories

OPEN SOURCE DEVELOPER

USA

Sep. 2012 - PRESENT

- Gained experience in contributing to open source software developments.