

# Philip Xu

STUDENT · SOFTWARE ENGINEER · BACKEND DEVELOPER

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“Forward unto dawn.”

## Education

### Brown University

SC. B. IN APPLIED MATH AND COMPUTER SCIENCE

Rhode Island, USA

September 2016 - PRESENT

### Choate Rosemary Hall

HIGH SCHOOL DIPLOMA

- Graduated Cum Laude.
- Top 5 Percent of Class.
- Excellence Honor in Computer Science.

Connecticut, USA

September 2012 - 2016

## Skills

### Computer Science

LANGUAGES AND LIBRARIES

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

### Software

SOFTWARE USAGE

- Pycharm (Python IDE), IntelliJ IDEA (Java IDE), XCode (Objective C/Swift/C/C++ IDE)
- Sublime Text 2/3 (Multi-purpose Text Editor), VIM (Multi-purpose Text Editor), GNU Nano (Multi-purpose Text Editor)
- Terminal, SSH, Git
- Illustrator, Photoshop

### Application Development

FRONT-END AND BACK-END

- Web App Dev: HTML, CSS, Javascript, JQuery, Bootstrap
- Native App Dev: Python, Electron, Java, C++
- Mobile App Dev: Objective C, Android Java
- Backend Dev: Node.js, Meteor.js, NoSQL (MongoDB), SQL

### Personal

LANGUAGES AND MUSIC

- Languages: English (First Language), Mandarin Chinese (First Language)
- Music: Cello (Tutored - 7 years), Piano (Self-taught - 1 year), Music Theory (Tutored - 6 years)

## Experience

### Applico Inc.

INTERN SOFTWARE ENGINEER & PLATFORM DEVELOPER & BACKEND DEVELOPER

New York City

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)

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.

## GitHub Online Repositories

USA

OPEN SOURCE DEVELOPER

Sep. 2012 - PRESENT

- Gained experience in contributing to open source software developments.

## Extracurricular Activity

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### CPU (Choate Programming Union)

Connecticut, USA

FOUNDER & PRESIDENT

Oct. 2012 - June, 2016

- Established a collaborative environment for like-minded programmers.
- Worked to promote Computer Science in school's curriculum and raise interests.
- Received Google Sponsorship and an annual grant of \$1,000

### Choate Math Team

Connecticut, USA

MEMBER

Sep. 2012 - June, 2015

- Competed in tournaments and attended weekly meetings.

## Honors & Awards

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2015 **Finalist**, Hewlett Packard Code War

California, U.S.A

2012 - '15 **Recipient**, Dean's Award

Connecticut, U.S.A

2015 - '16 **Recipient**, Excellence in Computer Science Award

Connecticut, U.S.A

## Academic Programs

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### Stanford University Summer Session

California, USA

STUDENT

Summer 2015

- Took classes in Advanced Web-development and Neuroscience, received 4.0 GPA and 8 credit units.

### Georgetown University Summer Program

Washington D.C., USA

STUDENT

Summer 2013

- Took classes in Expository Writing and Journalism

## Personal

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### Travel

DOMESTIC AND INTERNATIONAL

- Domestic: California, Washington DC, Florida, New York, New Jersey, Connecticut, Rhode Island, Massachusetts, Pennsylvania, Maryland, Washington
- International: USA, Canada, China, Thailand, S. Korea, Japan, Vietnam

### Sports

COMPETITIVE AND HOBBY

- Badminton, Volleyball, Ski, Snowboard, Rowing, Ultimate Frisbee, Cycling, Swimming