Philip **Xu**

STUDENT · SOFTWARE ENGINEER · BACKEND DEVELOPER

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"Forward unto dawn."

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

Skills

Computer Science

LANGUAGES AND LIBRARIES
- Java, Python, Pyret, Objective C
- HTML, CSS, Javascript
- JQeury, Node.js, Meteor.js, Bootstrap, MongoDB, SQL

Software

SOFTWARE USAGE
- Pycharm (Python IDE), IntelliJ IDEA (Java IDE), XCode (Objective C/Swfit/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.   *New York City*

INTERN SOFTWARE ENGINEER & PLATFORM DEVELOPER & BACKEND DEVELOPER   *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

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

2015	**Finalist**, Hewlett Packard Code War	*California, U.S.A*
2012 - '15	**Recipient**, Choate Rosemary Hall Dean's Award	*Connecticut, U.S.A*
2015 - '16	**Recipient**, Choate Rosemary Hall Excellence in Computer Science Award	*Connecticut, U.S.A*

Academic Programs

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

Sports
COMPETITIVE AND HOBBY
- Badminton, Volleyball, Ski, Snowboard, Rowing, Ultimate Frisbee, Cycling, Swimming