

# Philip Franchi-Pereira

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## EDUCATION

Bard College, B.A. Computer Science  
Bard High School Early College, A.A. Liberal Arts

May 2016, *Annandale-on-Hudson, NY*  
May 2013, *New York, NY*

## RELATED EXPERIENCE

### Web Programmer

January 2017 - Present

*Full Stack Developer*

*Penguin Random House*

- Worked with small teams in an agile environment to design, develop, and maintain company webapps.
- Developed using a wide variety of technologies, including PHP, JavaScript and Java.

### Tech Analyst Intern

May 2016 - December 2016

*Salesforce*

*MTXB2B*

- Work one on one with potential clients in order to design the best platform to fit their needs
- Routinely worked with multiple teams to implement our designs in Salesforce

### Teaching Assistant

January 2016 - May 2016

*CMSC360: Intelligent Robotics and Perception*

*Bard College*

- Prepare and organize course materials with professor
- Hold weekly office hours to help students with projects and assignments using ROS and Scribbler robots

### Drop in Tutor

September 2014 - May 2015

*CMSC: Artificial Intelligence, Data Structures, OOP w/ Robots*

*Bard College*

- Assisted students with key concepts of A.I such as heuristics, decision algorithms, and neural networks
- Held office hours and worked with students to improve assignment grades and programming skills
- Effectively communicated complex CS topics and concepts to students with little prior experience programming

## RESEARCH

**Senior Thesis:** Phyro, Exploring an Untethered Model for Robotics in CS-1

January 2014 - December 2015

*Prof. Keith O'Hara*

*Bard College*

- Created the Phyro library allowing users to program the Scribbler robot and Fluke2 attachment
- Reduced relative Phyro function call time by 300% when compared to Myro

### Student Researcher

May 2015 - August 2015

*Bard Summer Research Institute*

*Bard College*

- Developed auto-calibrating camera projector software using iPython, ROS and OpenCV
- Collaborated with a small team to update the software onboard the Intelligent Mobile Projector

## SKILLS

**Programming:** Python (4 years), Bash (4 years), Java (3 years), C/C++ (3 years), ROS (1 year), MySQL (1 year), JavaScript (1 year), PHP (1 year), Haskell (1 year), Mathematica (1 year), Prolog (1 year)

**Development Tools:** Git, Eclipse, Vim/Vi, Latex, Salesforce

**Languages:** Fluent English, Fluent Portuguese, Proficient Spanish

## ADVANCED COURSEWORK

Object Oriented Programming, Algorithms, Operating Systems, Theory of Computation, The Computational Image, Mobile App Development, Multi Core Architecture, Design of Programming Languages, Calculus I + II, Linear Algebra, Probability