**Vijay Pillai**

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**EDUCATION**

**Cornell University,** Cornell Tech, New York, NY

Master of Engineering in Computer Science  **Expected May 2018**

**Bard College at Simon’s Rock,** Great Barrington, MA

**Harvard Summer School,** Cambridge, MA

Bachelor of Arts in Computer Science, **GPA: 3.29 May 2017**

Associate of Arts **May 2015**

*Selected Coursework:* Machine Learning and Neural Nets • Artificial Intelligence • Combinatorial Algorithms • Computer Gadgets and Digital Media • Discrete Math • Graph Theory and Combinatorics • Intensive Introduction to Computer Science Using Java

*Undergraduate Work Experience:* Tutor for Intro to Computer Science Aug 2015 - Dec 2015, Tutor for Algorithms and Data Structures Jan 2016 - May 2016, Tutor for Object Oriented Programming Jan 2017 – May 2017

**SPECIALIZED SKILLS**

*Programming Languages:* Python, Java, C++, C, C#, JavaScript, PHP, Haskell, SQL, HTML/CSS, Go, 6502 Assembly

*Tools:* Atom Editor, JetBrains Pycharm, IntelliJ IDEA, NetBeans, QTCreator, Arduino, Git, Github, Atlassian BitBucket, JIRA,

Slack, PhpMyAdmin, Filezilla, Microsoft Office, Libre Office, LaTeX, jQuery, Bootstrap, MySQLi

*Operating Systems:* RedHat and Debian-based Linux (Fedora, Ubuntu, Raspbian, Mint), OS X, Windows

*Languages:* Spanish (minimal professional proficiency); Malayalam (limited working proficiency)

**ENGINEERING EXPERIENCE**

**Fullstack Developer (intern)***, Outer Journey,* Great Barrington, MA**35hrs/week,Summer 2016**

* Worked on a small team to develop web application prototype
* JavaScript/jQuery/Bootstrap front-end
* JavaScript/AJAX/PHP back-end
* SQL database management
* Session security

**RELEVANT ACADEMIC PROJECTS**

**A Low-Cost, Feature-Based Color Threshold Selection Approach to Eye-gaze Tracking and a Basis For Gaze Interface**

*Senior Thesis, Bard College at Simon’s Rock* **Spring 2017**

* Modified a consumer-grade camera for infrared eye tracking within a $200 budget.
* Developed functional software for eye tracking using novel methods
* Wrote report explaining methodology for IRB review
* Tested software on human subjects following IRB review

**LEADERSHIP EXPERIENCE**

**Founder and Co-President,** *Simon’s Rock Computer Science Club*, Great Barrington, MA**Fall 2015 - Spring 2017**

* Created student body for encouraging the pursuit of knowledge and involvement in computer science.
* Aided growth of college computer science department.

**Teacher’s Assistant**, *Intro to Philosophy,* Jinan University, Guangzhou, Guangdong, China **Summer 2014**

* Provided teaching assistance to ~60 undergraduates.

**ACTIVITIES/INTERESTS**

ukulele, 1/64 scale model collector, RPG video games, DIY projects