

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: 3.28**
Associate of Arts

May 2017

May 2015

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

Undergraduate Work Experience: Tutor for Intro to Computer Science, Tutor for Algorithms and Data Structures, Tutor for Object Oriented Programming

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/AJAX/jQuery/Bootstrap front-end, PHP/SQL 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

A Feature-Based Color Threshold Selection Approach to Pupil Tracking, 2017 IEEE MIT URTC

June 2017

- Submitted, acceptance pending

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
- Co-organized hackathon with Google on social change and open data for students (attendance 60+)

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