

# Aatish Nayak

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## EDUCATION

### CARNEGIE MELLON

#### B.S. COMPUTER SCIENCE

Expected June 2017 | Pittsburgh, PA

QPA: 3.45/4.0

## SKILLS

### PROGRAMMING

#### Languages:

Python • Java • C • HTML

CSS • SML • JavaScript •  $\text{\LaTeX}$

x86 Assembly • SystemVerilog

#### Software/Frameworks:

Linux (Ubuntu/Redhat) • VMware

Vagrant • SaltStack

Angular.js • Node.js • Bootstrap

## COURSEWORK

### UNDERGRADUATE

Principles of Imperative Computation

Concepts of Mathematics

Structure and Design of Digital Systems

Principles of Functional Programming

(Student then TA)

Introduction to Computer Systems

Principles of Software Construction

## CONTACT

Github:// [nayak16](#)

LinkedIn:// [Aatish Nayak](#)

Email:// [aatishn@andrew.cmu.edu](mailto:aatishn@andrew.cmu.edu)

## AWARDS

- Silicon Valley Engineering Fellow
- Deans List
- Excellent Achievement in Computer Science

## ACTIVITIES

- **Webmaster** of South Asian Student Association
- **Founding Father** in Phi Delta Theta Fraternity
- **Vice Captain** of CMU Raasta (Indian Dance Team)

## EXPERIENCE

### CARNEGIE MELLON | TEACHING ASSISTANT

August 2014 - Present | Pittsburgh, PA

- Undergraduate Teaching Assistant for 15-150, Principles of Functional Programming
- Currently working on creating initial homework assignments and setting up Autolab, CMU's automatic code grading service

### KEYME | SOFTWARE ENGINEERING INTERN

May 2014 - August 2014 | New York, NY

- Worked with a team of engineers to setup and test the new generation of the startup's signature product, a key copying kiosk.
- Used Salt, a configuration management tool, to efficiently configure and deploy dependencies for the kiosk software. Decreased time and cost of deployment by 20%
- Built a series of applications in Python to aid in testing and debugging of various components of the kiosk

### CARNEGIE MELLON ECE DEPARTMENT | RESEARCH ASSISTANT

November 2013 - April 2014 | Pittsburgh, PA

- Worked closely with PhD students to develop software for an implementation of a brain computer interface.
- Applied Fourier Transformations on the incoming signal processes. Increased signal efficiency and response by 10 %.
- Tested system on handicapped patients in local hospitals to gather test data for further improvement

## PROJECTS

### MOTION CONTROL REPLICATION | BUILD18 HACKATHON, CMU

Jan 2014

- Designed and coded all tracking algorithms for a Leap Motion Controller with an Arduino to map hand movements emulated on a physical acrylic board.
- Won Lab Rat award for Best Use of Innovative Technology.

### SASA WEBSITE | WEBMASTER, SASA

Summer 2014 | Pittsburgh, PA

- Built and currently maintain the CMU South Asian Student Association (SASA) website as Webmaster
- Used as a student portal for any and all South Asian events on campus. Online traffic of 20 visitors per day.
- Check out the website here: [www.mayursasa.com](http://www.mayursasa.com)

### MASTERMIND | STRUCTURE AND DESIGN OF DIGITAL SYSTEMS, CMU

March 2014 | Pittsburgh, PA

- Implemented the classic game MasterMind in x86 Assembly and SystemVerilog HDL
- Features fully functional 8bit GUI run from an FPGA Board
- Uses no conditional statements, only logical bit operations (and, or, xor, etc)