

# Aatish Nayak

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## EDUCATION

### CARNEGIE MELLON

B.S. ELECTRICAL AND COMPUTER  
ENGINEERING

MINOR IN COMPUTER SCIENCE

GPA: 3.52 / 4.0

Expected June 2017 | Pittsburgh, PA

## SKILLS

### PROGRAMMING

Languages:

Python • Java • C • Ruby  
SML • JavaScript •  $\text{\LaTeX}$   
x86 Assembly • SystemVerilog

Software/Frameworks:

Linux (Ubuntu/Redhat) • VMware  
Vagrant • SaltStack • Django  
Angular.js • Node.js • Backbone

## COURSEWORK

Embedded Real-Time Systems  
Parallel and Sequential Data Structures  
and Algorithms  
Introduction to Computer Systems  
Structure and Design of Digital Systems  
Principles of Functional Programming  
(Student then TA)  
Principles of Software Construction

## CONTACT

Github:// [nayak16](#)

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Website:// [nayak16.github.io](#)

## AWARDS

- Silicon Valley Engineering Fellow
- Deans List 2013-2014
- 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

### AUTOLAB | SOFTWARE ENGINEER

August 2015 – Present | Pittsburgh, PA

- Work on a platform for submitting, autograding, and recording CS homework assignments used by the majority of CS classes at CMU
- Contribute to an opensource standalone RESTful job queueing service called Tango
- Currently working on integrating Redis to replace an in-memory job queue for autograding jobs

### MONGODB | SOFTWARE ENGINEERING INTERN

May 2015 – August 2015 | New York, NY

- Worked on the Cloud Enterprise software team that manages, monitors, and automates customers' MongoDB deployments.
- Refactored legacy code for the Java Jetty server to improve speed and decrease latency by 20%
- Implemented new features including Flowdock/Slack integration with MongoDB alerts and a maintenance window feature for deployments

### CARNEGIE MELLON | TEACHING ASSISTANT

August 2014 - Present | Pittsburgh, PA

- Teaching Assistant for 15-150, Principles of Functional Programming taught in the functional language SML
- Key concepts taught include immutable data, parallel computation, efficient data structures, and asymptotic analysis.
- Currently responsible for creating homework assignments and holding office hours to answer students' questions

## PROJECTS

### MONEY PLS | TARTAN HACKS SPRING 2015 HACKATHON

January 2015 | Pittsburgh, PA

- Created an event money manager web app to allow hosts to organize and track guests payments (used Venmo API)
- Currently scaling to student campus organizations to help them manage Venmo payments from their customers
- Winner of Microsoft Sponsor Award - Best Use of Azure Cloud Services

### THE POND | PENN APPS FALL 2014 HACKATHON

September 2014 | Philadelphia, PA

- Created a web app for a location based file sharing service sans authentication
- Implements MongoDB and the GoogleMaps API to store and query files based on location

### MOTION CONTROL REPLICATION | BUILD18 HACKATHON, CMU

January 2014 | Pittsburgh, PA

- 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 - Best Use of Innovative Technology.