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 • LaTeX
x86 Assembly • SystemVerilog
Software/Frameworks:
Linux (Ubuntu/Redhat) • VMware
Vagrant • SaltStack • Django
Angular.js • Node.js • Backbone

COURSEWORK

Parallel and Sequential Data Structures and Algorithms
Introduction to Computer Systems
Structure and Design of Digital Systems
Principles of Functional Programming (Student then TA)
Concepts of Mathematics
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

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 standalones, replica sets, and sharded clusters.
- Refactored and redesigned legacy code in the Java web service (Jetty server with Jackson and Jetty frameworks)
- 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

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

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. Used Vagrant to simulate the system on a VMWare virtual machine.
- Built a series of applications in Python to aid in testing and debugging of various components of the kiosk. Decreased deployment time by 15 %.

PROJECTS

MONEY PLS | TartanHacks Spring 2015 Hackathon
January 2015 | Pittsburgh, PA

- Created an event money manager web app using the Venmo API to make payments
- Allows hosts to organize and track guest payments
- Currently scaling to student campus organizations to help them manage Venmo payments from their custmors
- 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.