

Aatish Nayak

aatishn@andrew.cmu.edu | 848.702.1830

EDUCATION

CARNEGIE MELLON

B.S. ELECTRICAL AND COMPUTER
ENGINEERING

MINOR IN COMPUTER SCIENCE

GPA: 3.32 / 4.0

Expected June 2017 | Pittsburgh, PA

SKILLS

PROGRAMMING

Languages:

Java • Python • C • Ruby

SML • JavaScript • x86 Assembly

LaTeX • SystemVerilog

Software/Frameworks:

Docker • React • Django

Angular.js • Node.js • Backbone

COURSEWORK

How People Work (HCI)

Operating System Design and
Implementation

Embedded Real-Time Systems

Parallel and Sequential Data Structures
and Algorithms

Computer Systems

Structure and Design of Digital Systems

Functional Programming (Teaching
Assistant)

CONTACT

Github:// [nayak16](#)

LinkedIn:// [Aatish Nayak](#)

Email:// aatishn@andrew.cmu.edu

Twitter:// [@nayakkayak](#)

AWARDS

- Silicon Valley Engineering Fellow
- Deans List 2013-2014
- Excellent Achievement in Computer Science

LEADERSHIP ROLES

- **Logistics Chair** of Bhangra in the Burgh Competition
- **Professional Development Chair** at Phi Delta Theta (CMU)

EXPERIENCE

UBER | SOFTWARE ENGINEERING INTERN

May 2016 - Present | San Francisco, CA

- Worked on the Emerging Markets Growth team improving the cash payments system to increase rider retention and engagement in India, SEA, and LatAm
- Designed, engineered, and led the creation of a more cohesive receipt experience for cash payments
- Contributed to Node, Python, and Go microservices while optimizing indexes on the in-house Postgres + MongoDB hybrid database

AUTOLAB | PROJECT MANAGER

August 2015 - Present | Pittsburgh, PA

- Lead a team of students working on a platform for autograding and tracking programming homework assignments.
- Decide on product goals and technical architecture affecting over 3,500 students at Carnegie Mellon with trials in University of Washington, Rutgers University, PKU, Cornell University, and several others.
- Specialize in optimizing the Python Tornado backend that uses Docker to process jobs in parallel

MONGODB | SOFTWARE ENGINEERING INTERN

May 2015 - August 2015 | New York, NY

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

PROJECTS

PEBBLES KERNEL | CARNEGIE MELLON

April 2016 | Pittsburgh, PA

- Architected and wrote a Unix based operating system to run on x86 hardware as part of 15-410: Operating System Design and Implementation
- Implemented virtual memory, a physical frame manager, a round-robin scheduler, context switching, and a user-level thread library
- Successfully runs a shell and mimics a file system to launch user level programs

MONEY PLS | TARTANHACKS SPRING 2015 HACKATHON

January 2015 | Pittsburgh, PA

- Led the development of an event money manager web app to allow hosts to organize and track guests payments
- Scaled to student campus organizations to help them manage Venmo payments from their members
- 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
- Implemented MongoDB and the GoogleMaps API to store and query files based on location