

# Nikhil Kumar

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## Education

### Rutgers, The State University of New Jersey

Bachelor of Science in Biomedical Engineering, Minor: Computer Science

Piscataway, NJ

May 2016

Cumulative GPA: 3.75 / 4.0

- Engineering Honors Program, Dean's List (All Semesters)

## Skills

**Programming:** Java, Shell, C, Python, R, Html, JavaScript, CSS, LaTeX, Matlab, x86 Assembly

**Environments:** Windows, Linux, Gimp, Git, Excel, Anybody Modeling System, Galaxy Analysis Platform

**Relevant Coursework:** Devices, Data Structures, Organic Chemistry, Computer Architecture

## Work Experience

### Merck

Intern - Future Leaders Program

Rahway, NJ

Summer 2015 - Present

- Creating a Scientific Information Management Platform using Amazon Web Services

### Human Genetics Institute of New Jersey

Computational Research and Support

Piscataway, NJ

Spring 2013 - Present

- Analyzed nucleosome stabilization-destabilization on Chip-Seq data.
- Computed expression profile clustering on Rna-Seq data.
- Collaborated published work for a *Molecular and cellular biology* paper.

## Research

### Human Genetics Institute of New Jersey

Student Assistant

Piscataway, NJ

Spring 2013 - Present

- Conducted and analyzed polymerase chain reaction experiments.
- Performed and examined hematoxylin and eosin staining, and immunostaining.

### Anybody Modeling: Biomechanics Analysis platform

Research Assistant

Piscataway, NJ

Fall 2013 - Present

- Modeled the difference between shod running and barefoot running.
- Manipulated motion captured data in python.

## Publications

### Peer-Reviewed

• Chahar et al., (2014). Chromatin Profiling Reveals Regulatory Network Shifts and a Protective Role for HNF4 $\alpha$  during Colitis. *Molecular and cellular biology*, 17, 3291-3304.

## Projects

**PostalPortraits:** Analyzes mood changes in an email thread to manipulate an image.

HackRU Spring

**MyoMelodies:** Uses the Myo to control a music player from hand gestures.

PennApps Fall

## Awards

## Activities

2015	Twitter API Award	HackRU Spring	2014	HackRU Fall	Hackathon
2014	Context.io Api Award	HackRU Spring	2014	PennApps Fall	Hackathon
2012	James Dickson Carr Award	Merit Scholarship	2014	HackRU Spring	Hackathon
2012	Robert E. Slobodien Award	Excellence in Science	2013	HackNY Fall	Hackathon