

# Nikhil Kumar

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## Education

### Rutgers, The State University of New Jersey

Bachelor of Science in Biomedical Engineering, Minor: Computer Science

Cumulative GPA: 3.67 / 4.0

Piscataway, NJ

May 2016

- 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, Solidworks, Anybody Modeling System, Galaxy Analysis Platform

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

## Research

### VerziLab: Genetic Research Lab

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.

## Work Experience

### VerziLab

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.

### Metuchen Public Library

Page and Activity Leader

Metuchen, NJ

Summer 2010 - Fall 2012

- Organized and administered young adult activity programs.

## 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

2014	Context.io API Award	HackRU Spring
2012	James Dickson Carr Award	Merit Scholarship
2012	Robert E. Slobodien Award	Excellence in Science
2012	Track Medal	4×100 metres relay

2014	HackRU Fall	Hackathon
2014	PennApps Fall	Hackathon
2014	HackRU Spring	Hackathon
2013	HackNY Fall	Hackathon