

# 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

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

Piscataway, NJ

May 2016

## 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

## Research

### VerziLab: Genetic Research Lab

Student Assistant

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

Piscataway, NJ

Spring 2013 – Present

### Anybody Modeling: Biomechanics Analysis platform

Research Assistant

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

Piscataway, NJ

Fall 2013 - Present

## Work Experience

### VerziLab

Computational Research and Support

- 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.

Piscataway, NJ

Spring 2013 – Present

### Metuchen Public Library

Page and Activity Leader

- Organized and administered young adult activity programs.

Metuchen, NJ

Summer 2010 - Fall 2012

## 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	2014	HackRU Fall	Hackathon
2012	James Dickson Carr Award	Merit Scholarship	2014	PennApps Fall	Hackathon
2012	Robert E. Slobodien Award	Excellence in Science	2014	HackRU Spring	Hackathon
2012	Track Medal	4×100 metres relay	2013	HackNY Fall	Hackathon