

# Nikhil Kumar

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## Education

### Rutgers, The State University of New Jersey

Majoring in Biomedical Engineering and Minor in Computer Science

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

Cumulative GPA: 3.67 / 4.0

Piscataway, NJ

Will Graduate in May 2016

## Skills

**Undergraduate Coursework:** Biomechanics, Data Structures, Organic Chemistry, Computer Architecture

**Programming:** Proficient: Java, Shell, C, Python | Basic: R, Html, JavaScript, CSS,  $\text{\LaTeX}$ , Matlab, x86 Assembly

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

**Athletic Teams:** Varsity Soccer and Track

## Research

### • VerziLab

Genetic Research Wet Lab

Rutgers Life Sciences Building

Spring 2013 – Present

Performed Genotyping, Hematoxylin and Eosin staining, and Immunostaining.

### • Anybody Modeling

Biomechanics Analysis platform

Rutgers Biomedical Engineering Building

Fall 2013 – Present

Independent research with Department Chair Dr. Langrana. Compared the difference between Shod Running and Barefoot Running. Manipulated and analyzed Motion Captured data.

## Work Experience

### • VerziLab

Computational Research and Support

Rutgers Life Sciences Building

Spring 2013 – Present

Paid research on Chip-Seq and Rna-Seq analysis. Contributed published work for a paper.

### • Metuchen Public Library

Page and Activity leader

Metuchen, NJ

Summer 2010 - Fall 2012

Charter Member of the Teen Advisory Board. Organized young adult activity programs. Administrator of the Library Teen Facebook page.

## Publications

### PEER-REVIEWED

• Chahar, S., Gandhi, V., Yu, S., Desai, K., Cowper-Sal Lari, R., Kim, Y., Perekatt, A. O., Kumar, N., Thackray, J. K., Musolf, A., Kumar, N., Hoffman, A., Londono, D., Vazquez, B. N., Serrano, L., Shin, H., Lupien, M., Gao, N., & Verzi, M. P. (2014). Chromatin Profiling Reveals Regulatory Network Shifts and a Protective Role for Hepatocyte Nuclear Factor 4 $\alpha$  during Colitis. Molecular and cellular biology, 17, 3291–3304.

## Awards

2014	HackRU Spring	Context.io API Award
2012	High GPA + Varsity sports	Scholar Athlete Award
2010	Top in Computer science	Computer Science Award

## Hackathons Participated

2014	PennApps Fall
2014	HackRU Spring
2013	HackNY Fall