

Nikhil Kumar

29 Smith Street — Metuchen, NJ 08840

☎ (732)-654-2253 | ✉ Nikhilkumar516@gmail.com | 🌐 github.com/nikhil | 🌐 kumarcodes.com

Education

Rutgers, The State University of New Jersey

Bachelor of Science in Biomedical Engineering, Minor: Computer Science

Piscataway, NJ

May 2016

Cumulative GPA: 3.67 / 4.0

- Engineering Honors Program, Dean's List (All Semesters)
- Planning on pursuing a Master's degree

Skills

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

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

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

Research

VerziLab

Genetic Research Wet Lab

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

Piscataway, NJ

Fall 2013 – Present

- Independent research with Department Chair Dr. Noshir Langrana.
- 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

- 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

- Organized and administered young adult activity programs.

Publications

Peer-Reviewed

• Chahar, S., Gandhi, V., Yu, S., Desai, K., Cowper-Sal Lari, R., Kim, Y., Perekatt, A., Kumar, N., Thackray, J., Musolf, A., Kumar, N., Hoffman, A., Londono, D., Vazquez, B., Serrano, L., Shin, H., Lupien, M., Gao, N., & Verzi, M. P. (2014). Chromatin Profiling Reveals Regulatory Network Shifts and a Protective Role for HNF4 α during Colitis. *Molecular and cellular biology*, 17, 3291–3304.

Awards

Activities

2014	Context.io API Award	HackRU Spring
2012	James Dickson Carr Award	Scholarship
2012	Robert E. Slobodien Award	Excellence in Science

2014	PennApps Fall	Hackathon
2014	HackRU Spring	Hackathon
2013	HackNY Fall	Hackathon
2009-2012	Track and Field	School Team
2009-2012	Soccer	School Team