

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: 3.67 / 4.0

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

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, Git, Excel, Anybody Modeling System, Galaxy Analysis Platform

Research

VerziLab

Genetic Research Wet Lab

Piscataway, NJ

Spring 2013 – Present

- Performed Genotyping, Hematoxylin and Eosin staining, and Immunostaining.

Anybody Modeling

Biomechanics Analysis platform

Piscataway, NJ

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

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

- 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 α 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

Activities

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