

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, \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, H+E 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 α during Colitis. Molecular and cellular biology, 17, 3291–3304.

Awards

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| 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

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| 2014 | PennApps Fall |
| 2014 | HackRU Spring |
| 2013 | HackNY Fall |