Nikhil Kumar

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Education

Rutgers, The State University of New Jersey — Piscataway, NJ
Bachelor of Science in Biomedical Engineering, Minor: Computer Science — May 2016
Cumulative GPA: 3.67 / 4.0
- Engineering Honors Program, Dean's List (All Semesters)

Skills

Programming: Java, Shell, C, Python, R, Html, JavaScript, CSS, LaTeX, Matlab, x86 Assembly
Environments: Windows, Linux, Gimp, Git, Excel, Solidworks, Anybody Modeling System, Galaxy Analysis Platform
Relevant Coursework: Devices, Data Structures, Organic Chemistry, Computer Architecture

Research

VerziLab: Genetic Research Lab — Piscataway, NJ
Student Assistant — 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
Research Assistant — Fall 2013 - Present
- Modeled the difference between shod running and barefoot running.
- Manipulated motion captured data in python.

Work Experience

VerziLab — Piscataway, NJ
Computational Research and Support — Spring 2013 – Present
- Analyzed nucleosome stablization-destabilization on Chip-Seq data.
- Computed expression profile clustering on Rna-Seq data.
- Collaborated published work for a *Molecular and cellular biology* paper.

Metuchen Public Library — Metuchen, NJ
Page and Activity Leader — Summer 2010 - Fall 2012
- Organized and administered young adult activity programs.

Publications

Peer-Reviewed
- Chahar et al., (2014). Chromatin Profiling Reveals Regulatory Network Shifts and a Protective Role for HNF4α 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

2014	Context.io API Award	HackRU Spring	
2012	James Dickson Carr Award	Merit Scholarship	
2012	Robert E. Slobodien Award	Excellence in Science	
2012	Track Medal	4×100 metres relay	

Activities

2014	HackRU Fall	Hackathon
2014	PennApps Fall	Hackathon
2014	HackRU Spring	Hackathon
2013	HackNY Fall	Hackathon