

Nikhil Kumar

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Education

Rutgers, The State University of New Jersey

Bachelor of Science in Biomedical Engineering, Minor: Computer Science

Cumulative GPA: 3.70 / 4.0

Piscataway, NJ

May 2016

- 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, Anybody Modeling System, Galaxy Analysis Platform

Relevant Coursework: Devices, Data Structures, Organic Chemistry, Computer Architecture

Research

VerziLab: Genetic Research Lab

Student Assistant

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

Research Assistant

Piscataway, NJ

Fall 2013 - Present

- 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

- Analyzed nucleosome stabilization-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

Page and Activity Leader

Metuchen, NJ

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 HNF4 α 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

Activities

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

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