

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: 3.75 / 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, Anybody Modeling System, Galaxy Analysis Platform

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

Work Experience

Merck

Intern - Future Leaders Program

Rahway, NJ

Summer 2015 - Present

- Creating a Scientific Data Platform using Amazon Web Services

Human Genetics Institute of New Jersey

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.

Research

Computational Analysis of Gene Expression in Stem Cells

Team Leader - Senior Design

Piscataway, NJ

Fall 2015

- Will lead a team to conduct computational analysis on gene expression.

Lower Extremity Biomechanics Analysis

Research Assistant

Piscataway, NJ

Fall 2013 - Present

- Modeled the difference between shod running and barefoot running.
- Manipulated motion captured data in python.

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

2015	Twitter API Award	HackRU Spring
2014	Context.io Api Award	HackRU Spring
2012	James Dickson Carr Award	Merit Scholarship
2012	Robert E. Slobodien Award	Excellence in Science

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