

Nikhil Kumar

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Education

Rutgers, The State University of New Jersey

Master of Science in Biomedical Engineering

Bachelor of Science in Biomedical Engineering, Minor: Computer Science

Cumulative GPA: 3.75 / 4.0

- Engineering Honors Program, Dean's List (All Semesters)
- Enrolled in the 5 year Biomedical Engineering B.S./M.S. Program

Piscataway, NJ

Expected May 2017

Expected May 2016

Skills

Programming: Java, Shell, C, Python, R, Html, JavaScript, CSS, LaTeX, Matlab, x86 Assembly

Environments: Windows, Linux, Gimp, Git, Excel, Amazon Web Services, Solidworks

Relevant Coursework: Organic Chemistry, Devices, Numerical Analysis Computing, Biosignal Processing

Work Experience

Merck & Co., Inc.

Intern - Future Leaders Program

Rahway, NJ

Summer 2015

- Created a Scientific Data Platform using Python on Amazon Web Services with scalable and customizable components.
- Implemented a Publication Recommendation tool on the platform using Machine Learning and PubMed.
- Streamed and analyzed 1,000+ PubMed publications on the platform using Amazon Kinesis and D3.js.

Research

Computational Analysis of Gene Expression in Stem Cells

Team Leader - Senior Design

Piscataway, NJ

Fall 2015 - Present

- 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 using Solidworks.
- Manipulated and simulated motion captured data using Python and AnyBody Technology.

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 2014

MyoMelodies: Uses the Myo to control a music player from hand gestures.

PennApps Fall 2014

Awards

Activities

2015	Twitter Api Award	HackRU Spring
2014	Context.io Api Award	HackRU Spring
2012	James Dickson Carr Award	Merit Scholarship

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