

Nikhil Kumar

29 Smith Street — Metuchen, NJ 08840

EDUCATION

RUTGERS UNIVERSITY

BS IN BIOMEDICAL ENGINEERING

MINOR IN COMPUTER SCIENCE

Expected May 2016 | Piscataway, NJ

College of Engineering

Engineering Honors Program

Dean's List (All Semesters)

Cumulative GPA: 3.67 / 4.0

METUCHEN HIGH SCHOOL

Grad. June 2012 | Metuchen, NJ

2009-2012 — Soccer

2009-2012 — Track

Rank: 9/151

CONTACT

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COURSEWORK

UNDERGRADUATE

Data Structures

Organic Chemistry

Computer Architecture

SKILLS

ENVIRONMENTS

Linux

Git

Excel

Anybody Modeling System

Galaxy Analysis Platform

CummeRbund RNA Analysis

Amazon Web Services

PROGRAMMING

Proficient

Java • Shell • C • Python

Intermediate

R • Html • JavaScript • CSS • \LaTeX

Basic

Matlab • x86 Assembly

RESEARCH

VERZILAB | GENETIC RESEARCH LAB

Spring 2013 – Present | Rutgers Life Sciences Building

- Paid research with Dr. Verzi on Colon Cancer.
- Performed genotyping, chip-Seq analyses, RNA-Seq analyses, H+E staining, and Immunostaining

ANYBODY MODELING | BIOMECHANICS ANALYSIS PLATFORM

Fall 2013 – Present | Rutgers Biomedical Engineering Building

- Independent research with Department Chair Dr. Langrana
- Compared the difference between Shod Running and Barefoot Running
- Manipulated and analyzed Motion Captured data in a .c3d format.

WORK EXPERIENCE

METUCHEN PUBLIC LIBRARY | PAGE AND ACTIVITY LEADER

Summer 2010 – Fall 2012 | Metuchen, NJ

- Organized young adult activity programs.

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

2014 HackRU Spring

2012 High GPA + Varsity sports

2010 Top in Computer science

Context.io API Award

Scholar Athlete Award

Computer Science Award