

Chahna Patel

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2407 Jesse Way, Piscataway, NJ 08854

EDUCATION:

Rutgers University- New Brunswick, New Jersey

Bachelor of Arts in Biomedical Engineering

GPA: 3.13/4.0

Expected Graduation: May 2020

RELEVANT COURSES:

- Introduction to Biomedical Engineering
- Systems Physiology
- Devices & Systems (Lecture + Lab)
- Numerical Modeling in Biomed Sys
- Thermodynamics & Kinetics
- Essentials of Cell Biology and Neuroscience

TECHNICAL/NON-TECHNICAL SKILLS:

- Microsoft Word, Excel, PowerPoint
- Java, Python, BioPython, MATLAB
- PHP & XML
- Machine Learning and Data Science
- Bilingual in English and Gujarati
- Excel-Pivot Tables & Data Tool Pak

PROJECTS/RESEARCH:

Bromberg Lab, Rutgers University-NB

Research Assistant (Bioinformatics)

March 2018 - Present

- Classified DNA reads to be of Prokaryotic or Eukaryotic origin through application of machine learning models
- Wrote scripts in Python & Scikit Learn and used Orange & Weka Machine Learning Tools -<https://github.com/ChahnaP>
- Used SVM, Logistic Regression & Random Forest machine learning algorithms
- Utilized k-fold cross validation & feature selection, used NumPy data arrays
- Ran scripts on Rutgers Amarel computing cluster which utilizes Hadoop

Info Seeking Lab, Rutgers University-NB

Research Assistant (Information/Computer Science)

June 2017 – August 2017

- Wrote open source code in PHP and XML to contribute to an Information Retrieval System (IRIS) – <https://github.com/ChahnaP>
- Worked on adding 3 new operators to the system

EXPERIENCE:

JFK Prosthetics and Orthotics Laboratories, Edison, NJ

Extern

August 2017 – August 2017

- Shadowed technicians and learned how they made prosthetic models
- Observed how technicians interacted with patients to make and test prosthetic models

Picatunny Arsenal, Wharton, NJ

Extern

March 2017 – March 2017

- Learned 3-D printing process and basic CAD
- Observed the different engineering facilities and experienced how engineering is used to make equipment for the army

Genetic Engineering Club, Piscataway, NJ

Rutgers Waksman High School Program

Sep 2014 – May 2016

- Published two clones of proteins in the National Center for Biotechnology Information Database
- Learned PCR, RDG, Pipetting, Genetic Sequencing and Cell Culture Inoculations
- Conducted Protocol Development, learned toolbox (bioinformatics tool) and completed a research project on a published protein

LEADERSHIP/ORGANIZATIONS:

Society of Asian Scientists and Engineers, Rutgers University

Internal Vice President

April 2018 - Present

- Booking room for club events and meetings
- Handling logistics of club events and meetings
- Assisting the President with tasks when needed

Society of Asian Scientists and Engineers, Rutgers University

Secretary

April 2017 - April 2018

- Sent out weekly emails to general members and organized E-Board meetings
- Assisted in planning club events
- Organized and hosted a First-Generation Student Outreach event

Society of Asian Scientists and Engineers, Rutgers University

Freshman Ambassador

Dec 2016 - April 2017

- Fundraised for trip to Regional Conference
- Assisted in organizing a meeting on mental health in the Asian community

ACTIVITIES/AWARDS:

- AP Scholar with Distinction Award *Recipient* July 2016 - Present
- IEEE Scholarship *Recipient* June 2016 - Present
- NCWIT Certificate of Distinction *Recipient* April 2016 - Present