

Hersh Patel

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Education **Rutgers University - New Brunswick • May 2019**
B.S. in **Computer Science** and **Economics** • Minor in **Mathematics**
Cumulative GPA: **3.81/4.00** • Major GPA: **3.90/4.00**

Honors: Certification in Quantitative Economics • Arts & Sciences Honors Program • Dean's List
Relevant Coursework: Graduate Artificial Intelligence • Data Analytics in R • Smart Cities • Algorithms

Experience **Amazon • Software Engineering Intern • May 2018 - August 2018**
▸ Developing a back-end labeling feature for Virtual Dash Buttons with **DynamoDB** and **Amazon S3** - amazon.com/db

Bloomberg • Market Data Summer Analyst • June 2017 - August 2017
▸ Engineered an autonomous data extraction program in Python with **NLTK** to parse 150+ page annual reports
▸ Built a web scraper in Python using **Beautiful Soup** to collect power producer asset data for 8 clients
▸ Remodeled help-desk system to decrease mis-tag rate by **30%** after discovering high user dissatisfaction with **NumPy**

NBCUniversal • Data Analytics Intern • June 2016 - August 2016
▸ Proposed a **40% increase** in Fandango's user retention rate after analyzing customer data KPI's made with **SQL**
▸ Envisioned the integration of NBCU content in iMessage by surveying and evaluating over **1,000 diverse users**
▸ Streamlined a manual data retrieval process, in **Amazon S3**, from **3 hours to 5 minutes**

Department of Computer Science • Teaching Assistant • January 2018 - Present
▸ *Fall 2018* - Foundations of Business Programming (136:388), Exploring Computer Science (Peer Instructor)
▸ *Spring 2018* - Intro to Discrete Structures 2 (198:206)

Projects **Smart Cities • Independent Study • January 2018 - May 2018**
▸ Analyzed the real-time interactions of private vehicles in Shenzhen, China under Professor Desheng Zhang

Intelligent Facial Recognition Platform • Python • April 2017
▸ Predicted the age and gender of person (png, jpg) with 70% accuracy, by utilizing a **Keras Neural Network**

NBC Innovation Competition • 1st out of 50+ Teams • August 2016
▸ Led a cross-functional team of 5 (design, programming, analytics, marketing) to develop a Facebook Messenger bot

Find My Ride • 5,000+ Downloads • March 2015
▸ Developed an iOS Application in **Swift** that allows users to track where they parked their cars and navigate to them

Leadership **TEDxRutgers • President • Tech Director • December 2015 - Present**
▸ Achieved **90% growth** (~500 to ~1k members) in **1 year** by identifying attendance trends in collected member data
▸ Managed **5 teams** (Budgeting, Logistics, Tech, Marketing, Design) and **\$25k+** to organize events for **1k+ attendees**

Institute of Electric and Electronic Engineers (IEEE) • Machine Learning Group • November 2016 - May 2018
▸ Discovered stories in datasets by analyzing regression models computed with **SciPy** and **Matplotlib** in Python
▸ Performed statistical analysis on decision tree models built with **Random Forest**, **rpart**, & **MASS** libraries in R

HackRU • Marketing Director • Peer Mentor • January 2016 - August 2016
▸ Coordinated with **8 teams** and **10 sponsors** to market a 24-hour hackathon for **600+ students** with **\$35k+** budget
▸ Orchestrated web development talks on **HTML/CSS**, **JavaScript** and **Bootstrap** to educate 80+ members

BAPS Charities • Regional Youth Volunteer • September 2011 - Present
▸ Cultivated a **team of 18** to lead annual regional conventions, which hosted over **3k+ delegates** and **400 volunteers**
▸ Mentored 15 youth (ages 10-15) in public speaking, time management, team building, and communication skills

Skills & Interests **Programming:** Python • SQL • R • Java • C • HTML • CSS • JavaScript • Swift • Linux • x86
Tools: Hive • Spark • Stata • Hadoop • Git • Bloomberg Terminal • AWS (S3, DynamoDB, EC2, RDS, EFS)

Other Activities: PennApps • HackNY • BigRed//Hacks • Delta Sigma Pi - Professional Business Fraternity
Interests: Traveling • Running • Hiking • Photography • Volunteering • Bhangra & Bollywood Music