

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**

Honors: Certification in Quantitative Economics • Arts & Sciences Honors Program • Dean's List

Relevant Coursework: Graduate Artificial Intelligence • Graduate Pattern Recognition • Smart Cities • Algorithms

Experience

Amazon • *Software Engineering Intern* • May 2018 - August 2018

- Built a pipeline to display smart labels for **1.4B+** dash buttons with **AWS (DynamoDB, Redshift)** and **SpringMVC**
- Expanded the virtual dash core service by developing APIs to translate data between various microservices
- Designed an A/B test to evaluate potential growth in customer conversion rate for the top 100 replenishable products

Bloomberg • *Market Data Summer Analyst* • June 2017 - August 2017

- Built a document classification program with Python's **Natural Language Kit** to extract data from 150+ page reports
- Remodeled the power data API to scrape energy producer data, with Python's **Beautiful Soup**, for 8 client's workflows

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 **1k diverse users**

Rutgers Department of Computer Science • *Teaching Assistant* • January 2018 - Present

- Fall 2018 - Foundations of Business Programming (136:388)
- 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 85% accuracy, by utilizing a **Keras** Neural Network

NBC Innovation Competition • *1st out of 30+ Teams* • August 2016

- Led a team of 5 (programming, analytics, explainability) to build a conversational agent for NBC News

Find My Ride • *5,000+ Downloads* • March 2015

- Developed an iOS Application in **Swift** that helped users to navigate to their parked cars

Leadership

TEDxRutgers • *President* • *Tech Director* • December 2015 - Present

- Achieved **90% growth** (~500 to ~1k members) in one year by identifying attendance trends in 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 - February 2018

- Built a Handwritten Equation Solver (90% accuracy) with 5 others by utilizing a Haar Cascade like approach
- Hosted weekly paper seminars where 15 students gathered to explore various Deep Learning topics

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

- Mentored **100+ youth** (ages 10-15) in public speaking, time management, team building, and communication skills

Skills & Interests

Programming: Python • Java • SQL • R • C • HTML • CSS • JavaScript • Linux • x86

Tools: Hive • Spark • Stata • Hadoop • Git • Bloomberg Terminal • AWS (Lambda, EC2)

Other Activities: PennApps • HackNY • BigRed//Hacks • Delta Sigma Pi - Professional Business Fraternity

Interests: Traveling • Running • Photography • Volunteering • Bhangra & Bollywood Music