Hersh Patel

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EDUCATION

Rutgers University **New Brunswick, NJ**

*Bachelor of Science in **Computer Science** and **Economics**, Minor in **Mathematics*** *September 2015 – May 2019*

‣ *Cumulative GPA*: **3.79/4.00**; *Major GPA*: **3.90/4.00**
‣ *Honors:* Certification in Quantitative Economics, School of Arts and Sciences Honors Program
‣ *Relevant Coursework*: Data Structures, Algorithms *(expected)*, Computer Architecture, Principles of Programming

PROFESSIONAL EXPERIENCE

Bloomberg **Princeton, NJ**

Market Data Summer Analyst | Energy and Commodities Team *June 2017 – August 2017*

‣ Engineered a data extraction program in Python with *nltk* to autonomously gather key data points in 150+ page annual reports
‣ Built a web scraper in Python using *beautiful soup* to collect asset data on the top 5 independent power producers for clients
‣ Expedited ticker creation and mapping workflows by writing Python scripts that yielded a time savings of over 10 hours

NBCUniversal **Englewood Cliffs, NJ**

Data Analytics Intern | Big Data Technologies Team *June 2016 – August 2016*

‣ Analyzed Fandango's customer data, with *Hive*, to craft a business plan that would increase user retention rate by 40%
‣ Simplified a manual data retrieval process from 3 hours to 5 minutes by using *Amazon S3* to automatically download data
‣ Identified inconsistencies in Fandango's transactional and log data with *Pandas* in Python to prepare the data for analytics

Freelance Website Developer **East Brunswick, NJ**

Consultant *September 2014 – Present*

‣ Enhanced community presence and improved product marketability of 12 local organizations by revamping their websites

PROJECTS

Facial Recognition Platform | *Python* **June 2017**

Predicted the age and gender of a person (png, jpg, gif) with 70% accuracy by utilizing a *Keras* Neural Network in Python

Amplifire Entertainment | *HTML, CSS, JavaScript* **January 2017**

Generated a 60% increase in client inquiries by upgrading the website's SEO with a modern parallax scroll interface

NBC News Chat Bot | *Python* **August 2016**

Led a 4 person cross-functional team (design, programming, analytics, marketing) in developing a Facebook messenger bot

Event Attendance Tracker | *Swift* **July 2014**

Measured the demographics of events attended by over 10,000 people to improve delegate registration and production logistics

LEADERSHIP ACTIVITIES

TEDxRutgers **New Brunswick, NJ**

President | Technology Director *December 2015 – Present*

‣ Collaborated with 20 members to organize annual TEDxRutgers Conferences for 1,000 members of the Rutgers community
‣ Managed 5 subcommittees (Budgeting, Logistics, Tech, Marketing, Design) and a budget of $20,000; oversee all operations
‣ Oversaw all tech needs, including website dev. (*tedxrutgers.com*), audiovisual systems, and live streaming, for all events

Institute of Electric and Electronic Engineers (IEEE) **New Brunswick, NJ**

Machine Learning Team *September 2016 – Present*

‣ Discovered stories in datasets by analyzing regression models computed with the *Pandas*, *NumPy*, and *SciPy*, Python libraries
‣ Interpreted decision tree models and permutation tests with the *Random Forest*, *rpart*, and *MASS* libraries in R to craft stories

Undergraduate Student Alliance of Computer Scientists **New Brunswick, NJ**

Marketing Director (HackRU) | Peer Mentor *January 2016 – August 2016*

‣ Coordinated with 8 teams and 10 sponsors to market a 24-hour hackathon for over 600 students with a $35,000 budget
‣ Orchestrated a series of web development tech talks on *HTML*, *CSS*, *JavaScript*, and *Bootstrap* to educate 80 club members

BAPS Charities **Robbinsville, NJ**

Regional Youth Coordinator *September 2011 – Present*

‣ Cultivated a team of 18 members to lead annual regional conventions, which hosted over 3,000 delegates and 400 volunteers
‣ Mentored 15 youth (ages 10-15) in developing public speaking, time management, team building, and communication skills

SKILLS & INTERESTS

Programming: *Proficient* – Python, Java, C, R, SQL, HTML, CSS, Linux; *Familiar* – JavaScript, Swift, IA-32, Stata
Tools: *Proficient* – Bloomberg Terminal, Hadoop, Hive, Eclipse, Bootstrap; *Familiar* – Spark, Amazon S3
Other Activities: Delta Sigma Pi – Professional Business Fraternity, RU Consulting, Quantitative Finance Club
Interests: Traveling, Kickstarter, Running, Photography, Scenic Driving, Kite Flying, Volunteering