

# Hersh Patel

patel.hersh@rutgers.edu • 732.853.3885 • hershpatel.com

Education	<p><b>Rutgers University</b> - New Brunswick • <i>May 2019</i></p> <p>B.S. in <b>Computer Science</b> and <b>Economics</b> • Minor in <b>Mathematics</b></p> <p>Cumulative GPA: <b>3.81/4.00</b></p> <p><i>Relevant Coursework:</i> Grad Artificial Intelligence (520) • Grad Pattern Recognition (535) • Algorithms (344) Systems Programming (214) • Databases (336) • Behavioral Economics (480) • Game Theory (482) • Smart Cities (494)</p>
Experience	<p><b>Amazon</b> • <i>Software Engineering Intern</i> • <i>May 2018 - August 2018</i></p> <ul style="list-style-type: none"><li>▸ Built a pipeline to display smart labels for <b>1.4B+</b> virtual dash buttons with <b>AWS DynamoDB</b> and <b>Spring MVC</b></li><li>▸ Expanded the virtual dash core service by developing APIs to translate data between various microservices</li><li>▸ Designed an A/B test to evaluate potential growth in customer conversion rate for the top 100 replenishable products</li></ul> <p><b>Bloomberg</b> • <i>Market Data Summer Analyst</i> • <i>June 2017 - August 2017</i></p> <ul style="list-style-type: none"><li>▸ Built a document classification program with Python's <b>Natural Language Kit</b> to extract data from 150+ page reports</li><li>▸ Remodeled the power data API to scrape energy producer data, with Python's <b>Beautiful Soup</b>, for 8 client's workflows</li></ul> <p><b>NBCUniversal</b> • <i>Data Analytics Intern</i> • <i>June 2016 - August 2016</i></p> <ul style="list-style-type: none"><li>▸ Proposed a <b>40% increase</b> in Fandango's user retention rate after analyzing customer data KPI's made with <b>SQL</b></li><li>▸ Envisioned the integration of NBCU content in iMessage by surveying and evaluating over <b>1k diverse users</b></li></ul> <p><b>Rutgers Department of Computer Science</b> • <i>Teaching Assistant</i> • <i>January 2018 - Present</i></p> <ul style="list-style-type: none"><li>▸ <i>Fall 2018</i> - Foundations of Business Programming (136:388)</li><li>▸ <i>Spring 2018</i> - Intro to Discrete Structures 2 (198:206)</li></ul>
Projects	<p><b>Smart Cities</b> • <i>Independent Study</i> • <i>January 2018 - May 2018</i></p> <ul style="list-style-type: none"><li>▸ Analyzed the real-time interactions of private vehicles in Shenzhen, China under Professor Desheng Zhang</li></ul> <p><b>Intelligent Facial Recognition Platform</b> • <i>Python</i> • <i>April 2017</i></p> <ul style="list-style-type: none"><li>▸ Predicted the age and gender of person (png, jpg) with 85% accuracy, by utilizing a <b>Keras</b> Neural Network</li></ul> <p><b>NBC Innovation Competition</b> • <i>1st out of 30+ Teams</i> • <i>August 2016</i></p> <ul style="list-style-type: none"><li>▸ Led a team of 5 (programming, analytics, explainability) to build a conversational agent for NBC News</li></ul> <p><b>Find My Ride</b> • <i>5,000+ Downloads</i> • <i>March 2015</i></p> <ul style="list-style-type: none"><li>▸ Developed an iOS Application in <b>Swift</b> that helped users to navigate to their parked cars</li></ul>
Leadership	<p><b>TEDxRutgers</b> • <i>President</i> • <i>Tech Director</i> • <i>December 2015 - Present</i></p> <ul style="list-style-type: none"><li>▸ Achieved <b>90% growth</b> (~500 to ~1k members) in one year by identifying attendance trends in member data</li><li>▸ Managed <b>5 teams</b> (Budgeting, Logistics, Tech, Marketing, Design) and <b>\$25k+</b> to organize events for <b>1k+ attendees</b></li></ul> <p><b>Institute of Electric and Electronic Engineers (IEEE)</b> • <i>Machine Learning Group</i> • <i>November 2016 - February 2018</i></p> <ul style="list-style-type: none"><li>▸ Built a Handwritten Equation Solver (90% accuracy) with 5 others by utilizing a Haar Cascade like approach</li><li>▸ Hosted weekly paper seminars where 15 students gathered to explore various Deep Learning topics</li></ul> <p><b>HackRU</b> • <i>Marketing Director</i> • <i>Peer Mentor</i> • <i>January 2016 - August 2016</i></p> <ul style="list-style-type: none"><li>▸ Coordinated with <b>8 teams</b> and <b>10 sponsors</b> to market a 24-hour hackathon for <b>600+ students</b> with <b>\$35k+ budget</b></li><li>▸ Orchestrated web development talks on <b>HTML/CSS</b>, <b>JavaScript</b> and <b>Bootstrap</b> to educate 80+ members</li></ul> <p><b>BAPS Charities</b> • <i>Regional Youth Volunteer</i> • <i>September 2011 - Present</i></p> <ul style="list-style-type: none"><li>▸ Mentored <b>100+ youth</b> (ages 10-15) in public speaking, time management, team building, and communication skills</li></ul>
Skills & Interests	<p><b>Programming:</b> Python • Java • SQL • R • C • HTML • CSS • JavaScript • Linux • x86</p> <p><b>Tools:</b> Hive • Spark • Stata • Hadoop • Git • Bloomberg Terminal • AWS (Lambda, Redshift, EC2, CloudFormation)</p> <p><b>Activities:</b> PennApps • HackNY • BigRed//Hacks • Delta Sigma Pi - Professional Business Fraternity</p> <p><b>Interests:</b> Traveling • Running • Photography • Volunteering • Bhangra &amp; Bollywood Music</p>