

Hersh Patel

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Experience	<p>Amazon • Software Engineer - IoT SiteWise Monitor • August 2019 - Present</p> <ul style="list-style-type: none">▸ Founding team member; Collaborated with 8 others to launch public preview (re:Invent 2019) and GA (July 2020)▸ Designed and developed a global microservice to charge our customers per unique active user per month▸ Led a team of 4 to implement an AWS IAM based authentication mechanism for the service's managed applications▸ Wrote 9 of the 24 back-end REST APIs in Go and their respective integration tests▸ Awarded the <i>Above & Beyond</i> award at the AWS IoT Analytics all-hands for work done on the billing service <p>Amazon • Software Engineering Intern - Virtual Dash Buttons • May 2018 - August 2018</p> <ul style="list-style-type: none">▸ Built a pipeline to display smart labels for 1.4B+ virtual dash buttons with AWS DynamoDB and Spring MVC▸ Expanded the virtual dash core service by developing Java APIs to translate data between internal microservices▸ Designed an A/B test to evaluate potential growth in customer conversion rate for the top 100 replenishable products <p>Bloomberg • Market Data Summer Analyst - Energy & Commodities • June 2017 - August 2017</p> <ul style="list-style-type: none">▸ Built a document classification program with Python's Natural Language Kit to extract data from 150+ page reports▸ Redesigned the power data API with Python's Beautiful Soup according to 8 client's recommendations <p>NBCUniversal • Data Analytics Intern - Big Data • June 2016 - August 2016</p> <ul style="list-style-type: none">▸ Leveraged customer purchase KPIs, with SQL, to propose a 40% increase in Fandango's user retention rate▸ Engineered a high throughput data pipeline with AWS Kinesis and Hadoop to handle over 2TB data per day <p>Rutgers Department of Computer Science • Teaching Assistant • January 2018 - Fall 2018</p> <ul style="list-style-type: none">▸ <i>Fall 2018</i> - Foundations of Business Programming (136:388)▸ <i>Spring 2018</i> - Intro to Discrete Structures 2 (198:206)
Activities	<p>BAPS Charities • Regional Youth Activities Volunteer • September 2011 - Present</p> <ul style="list-style-type: none">▸ Plan, oversee, and speak at regional summer camps and weekly assemblies for 3k+ children with team of 12 members <p>TEDxRutgers • President • Tech Director • December 2015 - May 2019</p> <ul style="list-style-type: none">▸ Achieved 90% growth (~500 to ~1k members) over one year by identifying attendance trends in member data▸ Led team of 20 (Design, Marketing, Tech, Finance, Logistics) to host conferences with 1k+ attendees and 10 speakers <p>Smart Cities • Independent Study - Professor Desheng Zhang • January 2018 - January 2019</p> <ul style="list-style-type: none">▸ Researched the feasibility of real-time sharing of sensor data within heterogeneous vehicular networks▸ Analyzed spatio-temporal granularities of human mobility patterns in Shenzhen, China to predict mobility uniqueness
Education	<p>Rutgers University - New Brunswick • May 2019</p> <p>Bachelors of Science in Computer Science and Economics</p> <p>GPA: 3.83/4.00</p> <p>Relevant Coursework: Grad Artificial Intelligence (520) • Grad Pattern Recognition (535) • Algorithms (344) Systems Programming (214) • Databases (336) • Distributed Systems (417) • Game Theory (482) • Smart Cities (494)</p>
Skills & Interests	<p>Programming: Go • Python • Java • SQL • HTML • CSS • JavaScript</p> <p>Tools: AWS (API Gateway, CloudFormation, CloudWatch, DynamoDB, IAM, IoT, KMS, Kinesis, Lambda, Route53, SES, SNS, SQS, SSO, Step Functions, X-Ray) • Git • Bloomberg Terminal</p> <p>Interests: Traveling • Running • Photography • Volunteering • Bhangra & Bollywood Music</p>