

# Shruti Patel

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## EXPERIENCE

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### Capital One

*Principal Software Engineer*

*Nov 2017 – Present*

- Architected and developed parts of a daily-run data pipeline helping save Capital One millions of dollars.
- Saved the company over \$1 million per year in AWS costs by rearchitecting the code and infrastructure.

*Team Lead*

*Feb 2018 – Jan 2020*

- Architected and led the team to gradually move data from a 3rd party legacy application into a microservice; thus, giving power to the users to update and reference the data in question.
- Refactored and optimized microservice so the API response times improved 200%.
- Helped raise engineering standards within the line of business (LOB) by implementing engineering best practices within the team (e.g. CI/CD), mentoring early career software engineers, and helping interview new talent.

**Notch** (*Acquired by Capital One*)

*Data Engineer*

*Mar 2017 – Oct 2017*

- Created a Spark job to migrate over \$9 trillion worth of Capital One spend and rewards data from their mainframe system to S3, MongoDB, and Cansandra in the cloud.

*Data Scientist*

*Feb 2017 – Apr 2017*

- Helped develop a k-means model of 13 million row dataset using Spark.
- Created multiple machine learning models using supervised learning on Salesforce data.

*Lead Engineer*

*Nov 2015 – Feb 2017*

- Collaborated with a team of designers, product managers, and product owners to create a machine learning based health and wellness app that grew the startup client's valuation to \$10 million.
- Architected and created platform to hand-groom decision trees that also solved the cold start problem.

### Maxx Potential

*Lead Engineer*

*July 2014 – Aug 2015*

- Led a team of developers to create web/iOS/android apps for a Brazilian peer-to-peer money transfer platform.
- Architected, created, and maintained a RESTful API for internal consumption by android and iOS apps the supporting the AWS infrastructure and CI/CD pipeline.

*Analytics Analyst*

*May 2014 – July 2014*

- Implemented Google Analytics event tracking and A/B testing for Medstar group of hospitals and its affiliates.

## RESEARCH

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**Monarch Butterfly Conservation** | *Lead Author*

*June 2020 – Present*

- Collaborating with a team of researchers from Emory, Stanford, and Vanderbilt to train a deep neural network (unet) to predict the number of butterflies in images of monarch butterfly clusters.
- Analyzing the model predictions of the test images.
- Troubleshoot and fixed bugs in the model and the training pipeline.

## VOLUNTEER

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**Kennedy Children's Center**

*Board of Directors*

*Sept 2020 – Present*

**Jersey City Council**

*Data Consultant*

*May 2020 – Present*

**Hoboken Volunteer Ambulance Corps**

*EMT-B*

*Aug 2019 – Present*

## AWARDS

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**Technology Builder**

*Margret Lyn McDermond Award*

*Oct 2015*

## EDUCATION

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**University of Virginia**

*Bachelor of Science in Aerospace Engineering*

*Aug 2009 – May 2013*

## TECHNICAL SKILLS

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**Languages:** Java, Python, SQL, Golang, PHP, Rust, Dart, Swift, JavaScript, HTML/CSS, dotnet, R

**Frameworks:** Spark, Tensorflow, Java Spring, Cucumber, Drools, Hugo, Laravel, Flask, Django, Flutter, React Native

**Developer Tools:** AWS, Git, Docker, AWS, Jenkins, Linux, Terminal/CLI, Postgres, MongoDB, Cassandra, Kafka

**Other:** monolith to microservice migrations, data migrations, jira, and agile project management