

# Dhaval Patel

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## EDUCATION

**New York University**, New York City, NY, USA Sep 2019 – May 2021  
Master of Science in Computer Science, GPA: 3.3/4

**Nirma University**, Ahmedabad, India Aug 2015 – May 2019  
Bachelor of Technology in Information Technology, GPA: 7.7/10

**Coursework:** Programming for Big Data Analytics, Software Engineering, Cloud Computing, Information Visualization, Human Computer Interaction, Machine Learning, Operating System, DBMS, Data Structures and Algorithm.

## TECHNICAL SKILLS

**Languages** : Python, SQL, Java, C++, HTML, CSS, JavaScript, Perl  
**Cloud Platforms** : AWS (Lambda, EC2, S3, RDS, CloudWatch, API Gateway), Azure (DevOps, Data Factory, Databricks)  
**Databases** : Microsoft SQL Server, Transact-SQL, PostgreSQL, MySQL, Snowflake  
**Tools** : JIRA, Git, GitLab, REST APIs, Sandbox, Postman, MuleSoft, Anypoint, Jenkins, Airflow, Grafana, Visual Studio, SSIS, SSMS, Power BI, D3.js, Observable Notebook, Jupyter Notebook

## WORK EXPERIENCE

**Cloud Technology Intern**, HBO WarnerMedia, New York City, NY, USA Jun 2020 – Aug 2020  
Technology: Python, SQL, AWS (RDS, S3, CloudWatch), Grafana, Airflow, Slack

- Designed custom dashboard using Grafana to monitor daily job runs and provide insights for job failures.
- Developed rule base alert system using python script to notify respective teams and clients about critical 200+ data feeds.
- Integrated Slack notifications to get information for task and job status for different Airflow DAGs executions.
- Analyzed CloudWatch logs to monitor Step functions and Glue jobs for Data Science and Data Engineering teams.

**Graduate Cloud Software Developer**, NYU IT, New York City, NY, USA Mar 2020 - Present  
Technology: Python, Java, AWS (Lambda, EC2, S3, API Gateway), Snowflake, MuleSoft

- Created custom runtime on AWS Lambda to retrieve data from API Endpoints using Perl script.
- Developed comparison method to calculate delta changes with respect to data present on upstream data sources.
- Constructed REST API endpoints using MuleSoft to provide access to databases as a part of NYU's COVID Response Team.
- Deployed Cron job to migrate data from S3 bucket to Snowflake Data Warehouse using Lambda and CloudWatch.

**Software Engineering Intern**, MAQ Software LLC, Mumbai, India Jan 2019 - May 2019  
Technology: Python, SQL, Azure (DevOps, Data Factory, Databricks), SSIS, SSMS, Power BI

- Developed data pipelines with natural language processing model to tag text data with bag of words.
- Deployed incremental pull for 5 million+ records to gain performance and reduced ETL time by 10% using data partitioning.
- Designed Metrics and KPI (Key Performance Indicators) through Power BI to get data insights and visualize data.

## TECHNICAL PROJECTS

**Semantic Code Search**, CodeSearchNet Challenge Spring 2020  
Technology: Python, Scikit-learn, Wandb

- Developed sequence-to-sequence LSTM encoders to transfer code documents and search strings into same vector space.
- Implemented TF-IDF search model to identify relevant documents for the given evaluation queries.
- Compared accuracy using Normalized Discounted Cumulative Gain (NDCG) with proposed research work.

**New York City Safe Travel Recommender** Fall 2019  
Technology: Python, PySpark, SparkML

- Combined 100K+ Airbnb listings with crime records using PySpark to generate crime over distance ratio.
- Improved rating of new housing which has zero reviews using K-means algorithm with neighborhood of 2 miles.
- Developed nearby restaurants feature using restaurant dataset of New York City with Airbnb listing's location.

**Stock Market Trend Prediction** Spring 2019  
Technology: Python, Scikit-learn, Keras

- Implemented prediction model with input parameters like EMA, MACD to predict the trends in stock price.
- Increased accuracy by 8% compared to previous research using feature correlation and weight optimization.
- Developed a new model which was trained on NSE (National Stock Exchange) dataset of 10 years. ([Ref. Research](#))

## LEADERSHIP | AWARDS

- Participated in Women in Technology Virtual Grace Hopper Celebration **GHC2020**. Sep 2020
- Organized and Managed 400+ participants as a part of Organizing Committee for **HackNYU** hackathon. Mar 2020
- Graduate Orientation Leader** for Students who joined NYU as Freshman in Spring 2020. Jan 2020
- Chairperson** - 2018 and **Treasurer** - 2017 for IEEE Student Branch of Nirma University. Jan 2017 - Dec 2018
- On-site Finalist** of **Goldman Sachs** We Build Coding Contest 2017 (out of 120+ teams). Mar 2017