Mohit Patel

+1 (201) 691 4391 | mohit.patel@nyu.edu | 37 Bay Ridge Avenue, Brooklyn, NY
https://mohitpatelnyu.github.io/portfolio/me/index.html

Education

Master of Science in Computer Science **Anticipated : May 2020**
New York University, Tandon School of Engineering, New York **CGPA : 3.39**
Related Courses: Cloud Computing, Machine Learning, Big Data, Information Visualization, Computer Vision and Scene Analysis, Design Analysis of Algorithms, Operating Systems, Computer Networks.
Bachelor of Engineering in Computer Engineering **Graduated : May 2018**
Gujarat Technological University, Vishwakarma Government Engineering College, India **CGPA : 3.39**

Technical Skills and Interests

Programming Languages: Java, Python, C++, C#, R, C **Operating Systems:** Windows, Linux
Web Technologies: JavaScript, HTML5, CSS, JSP, D3.js, PHP, AngularJS, NodeJS **Databases:** SQL, Oracle, MongoDB
Tools/Frameworks: Hadoop, Jenkins, Docker, Git, AWS, REST, Apache Spark, Apache Kafka, ASP.NET, Tableau

Professional Experience

Software Engineer Intern, KBC Bank & Verzekering (New York, NY) **June 2019 – Sept. 2019**

- Developed a Software robot using Robotics Process Automation, SQL, Python, Uipath tool which can be used by the relationship manager and finance department for expanding the business for the bank, by collecting the 10-K filing data from EDGAR Database.
- Helped in the development of internal portal which supports the finance department to analyse the real-time data for specific filing type as and when required or request the new data which will be fetched by the Software robot, which eventually helps to save the manpower and increases the productivity.

Graduate Student Assistant, New York University (New York University) **Jan. 2019 – May 2019**

- Graduate Student Assistant at NYU for planning, leading, managing and organizing office related work and helping students for solving their issues in the Campus using various Software Tools.

Software Engineer Intern, WayToWeb Pvt. Ltd. (Ahmedabad, India) **July 2016 – Sept. 2016**

- Developed, back-end and front-codes in Java, SQL, Html CSS, JavaScript on NetBeans in a collaborative agile environment where I was involved in redesigning a product which automated the employee's work from excel to a web application.
- As an Intern, it provided me the opportunity to work with my mentors, team members to develop software and websites for clients who requested specific demands. It helped to hone over my Object-Oriented Principles.

Teaching Assistant for Data Structures and Algorithms **Sept. 2016 – Dec. 2017**

- Assisted Professor with coursework, question papers, grading and helping the students to solve their queries.

Technical Projects (GitHub - github.com/MohitPatelNYU)

GSOD – Global Surface Summary of the Day Analysis (Big Query, Python, Spark, HPC) **Feb.2019-May 2019**

- Scalable Rainfall Prediction using GSOD Data provided by NOAA (National Oceanic Atmospheric Administration) and Machine learning models of Linear Regression & Decision Tree Classifier on High-Performance Computing Cluster of NYU for faster performance and Scalability on big data.

Smart Doorman System(Amazon Web Services, JavaScript) **July 2019- August 2019**

- Developed a Smart doorman system to identify the visitors using AWS Kinesis Live Video Streaming and AWS Rekognition. It also interacts with the visitor to identify their purpose of visit and sends a Real-Time SMS to the owner. Also notifies the owner if any criminal is identified in front of the door.

Analysis of Vehicle Collisions in NYC (D3.js, JavaScript, Python, Tableau) **Jan. 2019 – March 2019**

- Analysed the NYPD Open Data Initiative for analysing the pattern of vehicle collisions in NYC, using Information Visualization. This analysis helped to get insights regarding the frequency of accidents in NYC boroughs.
- As an extension on this project, I want to predict collisions of vehicles at specific locations based on weather conditions using Machine Learning algorithms K-Means and Mean-Shift Clustering to reduce the collisions.

Human Classification from Images (Python, Pillow, OpenCV, Neural Networks) **Sep. 2018– Jan. 2019**

- This project involved neural networks to classify the images whether they contain human or not without the use of any predefined library function. Input to the Neural Network is Histogram of Gradients to classify as Human

Blood Bank System (Java/J2EE, JSP, Web Technologies, SQL) **Jan. 2017 – June 2017**

- Online demo website which was my academic project for the course of Object-Oriented Programming with Java, which can be used to track the blood groups within the enrolled blood banks of a region. Developed REST web service and implemented CRUD Operations.