Mohit Patel

+1 (201) 691 4391 | mohit.patel@nyu.edu | https://mohitpatelnyu.github.io/portfolio/me/index.html

Education

Master's in Computer Science, New York University - CGPA: 3.39/4.00 **May 2020**
    Related Coursework: Cloud Computing, Machine Learning, Big Data, Information Visualization, Computer Vision and Scene Analysis, Design Analysis of Algorithms, Operating Systems, Human Computer Interaction.

Bachelor's in Computer Engineering, Gujarat Technological University - CGPA: 3.39/4.00 **May 2018**
    Related Coursework: Data Structures, Object Oriented Programming, Database Management Systems, Computer Networks, Web Technologies, Software Engineering, Artificial Intelligence, Information Security and Privacy

Technical Skills

Programming Languages: Java, Python, C++, ASP.NET, 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, Visual Studio, UiPath

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 web application.
- As an Intern, it provided me opportunity to work with my mentors, team members to develop software and websites for clients who requested specific demands. Alongside 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 an Real-Time SMS to 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 specific boroughs of NYC.
- 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 which can be helpful in reducing 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 and classify as Human or Non-Human.

Moody Music Player (Java, Python, OpenCV, SVM)   **Aug. 2017– May 2018**
- This project was based on innovative perspective which was recognizing the emotions from the facial expression of human faces and play the songs according to the Mood of the user. 70% accuracy was achieved

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.

Medical Store Billing Software (ASP.NET, C#, Web Technologies, Visual Studio)   **Jan 2017 – June 2017**
- Developed this static software using ASP.net which can be used for generating bills in a medical store and gave me experience to work with Visual Studio and concepts of .net technology.