

# Mohit Patel

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## Education

- **Master's in Computer Science, New York University** **May 2020**  
Related Coursework: Big Data, Design and Analysis of Algorithms, Computer Vision, Machine Learning, Information Visualization, Operating Systems.
- **Bachelor of Engineering in Computer Engineering, Gujarat Technological University** **May 2018**  
**CGPA: 3.39/4.00**  
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  
**Web Technologies:** JavaScript, HTML5, CSS, JSP, Node.js, D3.js, PHP, ReactJS  
**Tools/Frameworks:** Hadoop, MongoDB, Docker, Git, AWS, Android Studio, Visual Studio

**Operating Systems:** Windows, Linux  
**Databases:** MySQL Workbench, Oracle

## Professional Experience

- **Graduate Student Assistant, New York University** **Jan. 2019 – Present**  
- Operations 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 Summer Internship, WayToWeb Pvt. Ltd.** **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.  
- Analysed the data from the client for representing it in an efficient manner and display required outputs.
- **Teaching Assistant for Data Structures and Algorithms** **Sept 2016 – January 2017**

## Technical Projects (GitHub - [github.com/MohitPatelNYU](https://github.com/MohitPatelNYU))

- Analysis of Vehicle Collisions in NYC (D3.js, Python, Tableau, JavaScript)** **Jan. 2019 - Present**
- 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 such as K-Means and Mean-Shift Clustering which can be helpful in reducing the collisions by taking preventive measures.

- JSON – Map Reducer (MapReduce, Hadoop, Pig, Hive, Tools, Java)** **Jan 2019 – Present**
- Because of the problem of not able to recognize the start or end of any record in JSON, it makes it difficult to parse it, this brings me to work on a project of tokenizing the JSON tokens for large data File using Hadoop MapReduce.
  - The Open Source Project called ElephantBird which contains utilities which will be helpful in working for MapReduce

- 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 Image.

- 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.

## Certificates & Achievements

- **Machine Learning by Stanford University, Coursera** **Present**
- **Google Cloud Platform Big Data and Machine Learning Fundamentals** **Present**
- **WayToWeb Pvt. Ltd. Summer Internship** **July 2016**
- **C-DAC, GIST PACE Programme for diploma in multilingual programming** **June 2015**