

# Abhishek Yadav

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## EDUCATION

### Rutgers University

Master of Science – Computer Science

Cumulative GPA – 3.5/4.0

New Brunswick, NJ

Expected May 2023

### University of Mumbai

Bachelor of Engineering – Computer Engineering

Cumulative GPA: 3.43/4.0

Mumbai, India

Jul 2020

## PROFESSIONAL EXPERIENCE

### Software Developer Intern

State Street Corporation

New Jersey, USA

Jun 2022 – Aug 2022

- Created and deployed a highly efficient microservice using **Spring Boot** and **RESTful API** to automate the file transfer process, resulting in a 2x increase in team productivity
- Implemented microservice would monitor a directory containing financial reports (**JSON**) continuously and validate against client provided constraints eliminating the need for manual intervention
- Delivered generated report to designated client server using **REST API** with encrypted credentials (**Advanced Encryption Standard**) making the file transfer process secure
- Modified and improved existing **MySQL** queries and views with complicated joins thus improving data retrieval time by 3x, and normalized data to reduce redundancy

### Graduate Software Engineer

Reliance Jio Infocomm

Navi Mumbai, India

Dec 2020 – Aug 2021

- Engineered an employee vaccination portal for over 2000 employees using **Node.js**, **React.js**, and **REST API** for registering, scheduling and appointment viewing.
- Implemented responsive and user-friendly frontend using **React.js**, **Redux** and styled components.
- Worked on notification system with **Twilio API** for appointment reminders via email and SMS reducing missed appointments by 40%.
- Wrote comprehensive tests with **Jest** and **Enzyme** for application validation with 90% test coverage
- Gained experience building large-scale web applications, collaboration in team environment using **AGILE** practices

## PROJECTS

### Exercise Tracker (MERN stack)

- Developed a web application that allows users to easily track and manage their workouts using MERN stack (**MongoDB**, **Express**, **React**, and **NodeJS**)
- Implemented **authentication** using **JSON Web Token** giving the ability to users to sign up, login and create, edit, and delete their own workouts

### Database Management on AWS

- Normalized CSV data using Python to push into S3 buckets on **AWS** by using **Pandas**
- Built an **Android** application acting as an interface to query data from AWS and established a connection with **S3** and **Redshift** instances on the app using Python's **Tornado** server

### Serverless Web Application

- Developed a serverless web application for booking unicorn rides using **AWS Lambda** for booking requests **Amazon API Gateway** for API access and **AWS Amplify** for deployment
- Utilized **Amazon Cognito** for user authentications and **Amazon DynamoDB** as a NoSQL database service for data storage

### Crime Classification

- Designed a system to automatically assign described crime into specific categories using **PySpark** based on dataset from Kaggle on San Francisco Crime
- Implemented baseline model with **Logistic regression** using CountVectorizer with an accuracy of 93%, and built secondary models using Naïve Bayes with TF-IDF and word2vec with an accuracy of 97%

## TECHNICAL SKILLS

- **Languages:** Python, Java, SQL, C++, C, HTML, CSS, R, JavaScript
- **Technology/ Frameworks:** Spring Boot, REST API, Node, Express, React, JWT, MapReduce, Spark, Pandas, Hadoop
- **Database/Cloud :** MySQL, MongoDB, AWS