

# IRFAN AHMED

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## EDUCATION

### NEW YORK UNIVERSITY

Masters in computer science

New York, NY  
Sept 2021 - May 2023

### MES College of Engineering

Bachelor of Engineering in Computer Science

Pune, Maharashtra, India  
May 2013 - Jun 2017

## SKILLS

**Languages:** Java, JavaScript, Python (Pandas, NumPy), HTML/CSS, Go, Golang,

**Frameworks:** Spring Boot, Hibernate, JPA, Node.js, Express, MongoDB, Django, GraphQL, jQuery, SASS, React.js, Knockout.js, Bootstrap, Redux, d3.js

**Cloud:** Amazon Web Services (AWS) - CloudFormation, EC2, Lambda, S3, Lex, DynamoDB, SES, RDS, CodeCommit, SageMaker; Docker, Kubernetes, Jenkins, Google Cloud Platform (GCP), Heroku, Firebase, Continuous Integration, MySQL, Redis, SQL, MongoDB, Elasticsearch, Kibana

**Tools:** Git, IntelliJ, VS Code, GitLab, Bitbucket, Jenkins, Kibana, Apache Tomcat, Agile, Scrum

## PROFESSIONAL EXPERIENCE

### NEW YORK UNIVERSITY

Graduate Developer

New York, NY  
Nov 2021 – May 2023

- Designed and deployed a user-friendly full stack application in React and Django to automate the grading process of 3D models, reducing grading time by 75%
- Implemented real-time feedback functionality for students, increasing assignment submissions before the due date by 45%
- Integrated automatic plagiarism checker software within the application, detecting plagiarism cases with a rate of 95%
- Streamlined frontend interface with React.js by using Chakra UI 45 components to achieve consistency throughout the application
- Developed a standalone application using AWS Lambda, SES, S3, and AWS Cognito to automate a critical business process, decreasing processing time by 50%
- Collaborated with the security team to integrate applications with SSO server, streamlining authentication process for end-users reducing security overhead by 90%

### MEDIAOCEAN

Software Engineer

Pune, India  
Apr 2019 – Jul 2021

- Accelerated a new microservice that integrated applications using DDD, resulting in a 50% reduction in integration time and boosting application performance
- Reduced search time by 120% by implementing a faster search algorithm by optimizing SQL joins and guava cache
- Integrated a crucial module in the pricing engine used for 70% of calculations, leading to pricing accuracy and efficiency
- Facilitated a cross-functional meeting between the development, operations, and security teams to address concerns about application security and streamline the development process resulting in 40% reduction in errors
- Implemented a Rabbit MQ message queue to generate PDF reports asynchronously, improving application performance by 40% and reducing latency for users by 50%
- Designed and pioneered a streamlined API strategy, resulting in a 40% reduction in call time and enabling real-time data updates across all microservices using Oracle SQL
- Created 10 reusable React components that improved development efficiency and which is easier to build user interfaces, resulting in a more user-friendly experience

### MEDIAOCEAN

Associate Software Engineer

Pune, India  
Jul 2017 – Apr 2019

- Attended a comprehensive boot camp covering design principles such as SOLID, SQL, full-stack development, Java, Spring, JavaScript, and AOP
- Introduced efficient React components and assessed Redux for state management, resulting in a more intuitive and seamless user experience
- Mentored 5 junior developers on Object Oriented Programming concepts, resulting in a 40% increase in code efficiency and maintainability
- Coordinated with a team of developers to write comprehensive unit tests and integration tests using JUnit, resulting in a 20% reduction in errors and a reliable software

## PROJECTS

### Twitter Clone Distributed System

GO, React, Raft

New York, NY  
Sept 2022 – Nov 2022

- Developed a distributed system for a Twitter clone using GO, React, and Raft, which ensured system resiliency and scalability, ensuring high availability and performance, with enhanced user interface
- Built scalable, fault-tolerant backend services using GO to handle user authentication, post creation, and retrieval, enabling seamless user interactions