

# NIYATI MALIK

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## LANGUAGES AND FRAMEWORKS

Programming Languages: Java, C++, Python, TypeScript, JavaScript, SQL

Frameworks and Tools: Spring Boot, Angular, React, JUnit, Git, REST API, Jira, Agile, MySQL, Oracle SQL, Jenkins, NodeJS

Web Technologies: HTML, CSS

## WORK EXPERIENCE

Société Générale

Bengaluru, Karnataka

Software Engineer

07/2021 - 06/2024

- UI Migration - Led successful migration of 50+ legacy Apache Struts referential static data applications to **Spring Boot REST APIs and Angular** in a fast-paced environment. This ensured compliance with **modern architectural standards**, achieving a **40% improvement in application scalability** and a **50% reduction in page load times** as measured by stakeholder feedback.
- Maintained a strong focus on quality assurance by implementing **Angular 14** best practices, which **streamlined development processes**, reduced codebase complexity and improved user interface.
- PB Migration - Spearheaded the **migration of legacy applications to a modern full stack solution using Angular 9 and Java (Spring Boot)**, implementing Agile practices, leading to enhanced performance and user experience. Currently, the new application is being **utilized by 1500+ clients** within the organization.
- Demonstrated a strong work ethic by improving **code coverage from 0% to approximately 83% and eliminated around 4550 Sonar issues** for enhanced software reliability and quality.
- Executed thorough reviews of coding practices, rectifying 75+ issues highlighted by SonarQube, which led to faster deployment cycles and streamlined development processes, **enhancing overall team productivity by 15%**.
- Languages/Frameworks used - Java, Springboot, Angular CLI, HTML, Typescript, Rest API, SQL.

Netcore Solutions

New Delhi

Data Science and Machine Learning Intern

06/2020 - 07/2020

- Developed a data analysis project for **over 20,000 users**, focusing on generating actionable insights and diagnostics.
- **Implemented outlier detection techniques** to identify and analyze **anomalous user behavior** and data trends, resulting in the detection of 5% of users with irregular activity, allowing for targeted interventions.
- Evaluated user activity patterns using data analytics, **optimizing the timing of app notifications** which led to a **15% increase in user engagement** and a boost in app retention by 10% over a span of 2 months by targeting users during their most active browsing periods.
- Languages/Frameworks used - Python, Jupyter Notebook, NumPy, Pandas.

## EDUCATION

University of Illinois Chicago

Chicago, Illinois

Master of Science in Computer Science

08/2024 - 05/2026

- Relevant Courses - Computer Algorithms, Advanced Software Engineering, Introduction to Data Science.

Indira Gandhi Delhi Technical University for Women

New Delhi

Bachelor of Technology in Computer Science

08/2017 - 05/2021

- GPA: 7.7/10
- Relevant Courses - Data Structures and Algorithms, OOP, Object Oriented Software Engineering, Introduction to AI, DBMS, Cloud Computing, Data Mining.

## RECENT PROJECTS

Attack the Virus

- An educational web application designed to enhance public understanding of the immune system, the role of antibodies, and the effectiveness of vaccines, while also teaching basic math skills.
- Technologies used : **Frontend**: Angular, GSAP for animations, **Backend**: Spring Boot, MySQL, **APIs**: Google Maps API for clinic finder, **Testing**: JUnit, Mockito for backend; manual and automated tests for frontend

Property Appreciation Estimation and Recommendation for Strategic Real Estate Investments

- A data-driven real estate investment tool that forecasts property appreciation trends across cities, helping users make strategic investment decisions based on historical market trends and macroeconomic factors.
- Technologies used: **Data & Forecasting**: Python (Pandas, NumPy), **Visualization**: Matplotlib, Seaborn, **Data Sources**: Zillow Home Value Index (ZHVI), Mortgage Rate dataset, public APIs.

## PUBLICATIONS

Automatic Descriptive Answer Evaluation using NLP

08/2023

Journal of Emerging Technologies and Innovative Research (JETIR), Vol10. Issue8

## COURSES AND CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AI-900)
- Spring Framework: Core Spring - Pluralsight
- Data Science with Python - Udemy
- Interview Preparation with Java
- Java with Data Structures