Niyati Malik

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About

Computer Science graduate student with 3+ years of **software engineering** experience. Skilled in **full-stack development, UI migrations**, and data-driven solutions using **Java, Spring Boot, Angular, React and Python**. Passionate about building **impactful, high-performance applications**.

Languages and Frameworks

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

Frameworks & Tools: SpringBoot, Angular, React, JUnit, Git, REST API, Jira, Agile, MySQL, Oracle SQL, PostgreSQL

Web Technologies: HTML, CSS

Work Experience

Software Engineer *Bengaluru, Karnataka*
Société Générale *July 2021 – June 2024*

- UI Migration – **Led** successful migration of **50+ legacy Apache Struts data applications** to **Spring Boot REST APIs and Angular 14** 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.
- PB Migration – **Spearheaded** the migration of legacy applications to a **modern full stack solution** using **Angular 9 and Java**, implementing Agile practices, leading to enhanced performance and user experience. Currently, the new application is being utilized by **1500+ clients**.
- Demonstrated a strong work ethic by **improving code coverage from 0% to approximately 83%** and **eliminated 4550+ Sonar issues** for enhanced software reliability and quality.
- **Languages/Frameworks used**: Java, Spring Boot, Angular CLI, HTML, TypeScript, REST API, SQL, JUnit.

Data Science & Machine Learning Intern *New Delhi*
Netcore Solutions *June 2020 – July 2020*

- Developed **data analysis project** for **20,000+ users**, applying outlier detection to identify anomalous activity.
- Optimized notification timing, **boosting user engagement by 15% and retention by 10%** in two months.
- **Languages/Frameworks used**: Python, Jupyter Notebook, NumPy, Pandas.

Education

University of Illinois, Chicago *August 2024 – May 2026*
Master of Science in Computer Science

- **GPA**: 4.0/4.0
- **Coursework**: Computer Algorithms, Advanced Software Engineering, Responsible Data Science.

Indira Gandhi Delhi Technical University for Women *August 2017 – May 2021*
Bachelor of Technology in Computer Science

- **Percentage**: 77%
- **Coursework**: Data Structures and Algorithms, Object Oriented Programming, Object Oriented Software Engineering, Introduction to AI, Database Management Systems, Cloud Computing, Data Mining

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.