Momina Aziz

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SUMMARY

A motivated and skilled Computer Science student with a strong foundation in software engineering principles, full-stack development, and machine learning. Proven ability to design, build, and deploy end-to-end applications using modern Java and web technologies, complemented by hands-on experience in Natural Language Processing and machine learning model development. Seeking a role that leverages both full-stack and ML engineering skills to create intelligent, user-centric software solutions.

EDUCATION

Northeastern Illinois University   **Dec 2025**

Bachelor of Science, Computer Science

- **GPA:** 3.0
- **Coursework:** Programming Fundamentals (Java), Discrete Structures, Object-Oriented Programming & Data Structures (Java), Fundamentals of Software Engineering, Modern Database Management, Computer Organization, Introduction to Natural Language Processing, Machine Learning

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, SQL, JavaScript, HTML5, CSS3
- **Front-End Technologies**: React, Node.js, Express.js, RESTful APIs
- **Back-End Technologies**: Java Spring Boot, JDBC, Hibernate
- **Databases**: MySQL, PostgreSQL, MongoDB
- **Machine Learning**: Scikit-learn, Pandas, NumPy, NLTK, spaCy, Model Training & Evaluation, Basic Neural Networks
- **Tools & Methodologies**: Git, GitHub, Agile/Scrum, Unit Testing, JUnit, Docker

EXPERIENCE

Self-Employed   **Dec 2022 - Dec 2024**

Freelance Full-Stack Developer   *Remote*

- Engineered full-stack web applications for clients using the MERN stack (MongoDB, Express.js, React, Node.js), from initial concept through to deployment.
- Developed secure and scalable RESTful APIs with Node.js and Express.js, implementing CRUD operations, user authentication, and middleware to handle data validation and error handling.
- Designed and managed NoSQL databases with MongoDB, optimizing data schemas for application requirements and ensuring data integrity.
- Built dynamic and responsive front-end interfaces with React, utilizing component-based architecture and state management to enhance user experience.
- Collaborated directly with clients in an Agile environment to gather requirements, provide technical solutions, and iterate on feedback, delivering projects on time and to specification.

PROJECTS

Library Management System

- Developed a robust Java Spring Boot backend application to manage library inventory, user accounts, and transactions.
- Designed a normalized relational database schema in MySQL and utilized Spring Data JPA (Hibernate) for object-relational mapping, implementing constraints and indexes to ensure data integrity and optimize query performance.
- Exposed a secure RESTful API with endpoints for all CRUD operations, leveraging advanced SQL queries with JOINS and conditional clauses for complex data retrieval.
- Applied software engineering principles from coursework to create a clean, maintainable, and well-documented codebase with JUnit tests.

Student Performance Portal

- Led the development of a full-stack web application for students and faculty to view grades and feedback, taking ownership of the backend and database architecture.
- Implemented the backend in Java using Servlets or Spring Boot (specify which) to handle business logic and serve data securely to the front-end.
- Designed and built the MySQL database, writing complex SQL queries for efficient data aggregation and retrieval of student records, grades, and teacher comments.
- Collaborated on a team using Git for version control, demonstrating proficiency in the software development lifecycle learned in the Software Engineering course.