Mr. Nasir Hussain Khan

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Profile Summary

Computer Science and Engineering graduate, skilled in Java, Python, various web frameworks, full-stack development, and Machine Learning. Hands-on experience in developing scalable web applications with a focus on building RESTful APIs using modern web technologies. Proficient in designing scalable solutions, optimizing algorithms, and building data-driven applications. Strong problem-solving abilities with a passion for innovation, automation, and cutting-edge technology.

Education

Bachelor of Engineering(B.E.) in Computer Science and Engineering Aug 2021 – May 2025
Jawaharlal Nehru National College of Engineering, Shivamogga
CGPA: 8.3/10.0
Relevant Courses: Data Structure and Algorithms, Operating System, Computer Networks, DBMS, Java Fullstack
Class 12: Government Boys Higher Secondary School, Kupwara – 95%

Technical Skills

Programming Languages Java, Core Java, Python, SQL
Web Frameworks: Django, Spring Boot, Angular, Node.js, Next.js, HTML, CSS, JavaScript
Databases: MySQL, MongoDB, NoSQL
Machine Learning: Supervised and Unsupervised Learning, EDA
Technical Tools& Other Concepts: Postman, SOAPUI, Docker, Prompt Engineering, ChatGPT, Git, GitHub, REST APIs, Agile Methodologies

Experience

Software Development Intern, CodTech IT Solutions Private Limited Feb 2025 – June 2025 (GitHub)

- Rebuilt and deployed a mobile-first portfolio site using HTML, CSS, and JavaScript, resulting in a 45% increase in personal profile views and engagement.
- Designed and documented a RESTful API for a Library Management System with Node.js, Next.js handling 1000+ requests/day; implemented CRUD functionality and tested endpoints via Postman to ensure 98% test success rate.
- Enhanced an open-source application by reducing API response time by 20% and improving maintainability through modular refactoring and documentation using Python.
- Developed a real-time collaboration tool using WebSockets, Java, Spring Boot, Maven, supporting live multi-user code and note editing; achieved sub-200ms sync latency with 99.8% session uptime across 3 simultaneous users.

Projects

Deep Learning based Blood Group Detection & Blood Management System Nov 2024 – Jan 2025

- Engineered a CNN-based fingerprint classification model with PyTorch, achieving 96% accuracy in classifying blood groups using fingerprints. Developed Django backend with input validation and protected API endpoints.
- Integrated real-time donor–hospital communication; reduced contact time by 60%.
- Stack: Python, Machine Learning, Deep Learning, PyTorch, Django, Bootstrap, JavaScript.

Book Recommendation System May 2024 – July 2024
(GitHub)

- Developed a Book Recommendation System using a collaborative-based filtering method that can suggest books to users on the basis of their interaction and ratings.
- Supported 10,000+ book entries with a scalable backend.
- Tech Stack: Python, Machine Learning, Flask, CSS, JavaScript, ReactJS

Real-Time Collaborative Note-Taking Tool Mar 2025 – June 2025

- Built a Google Docs–like platform enabling multi-user real-time editing using WebSocket and Redis Pub/Sub.
- Developed secure Spring Boot backend with JWT authentication and MongoDB for persistent data storage.
- Integrated React-based rich-text editor; containerized with Docker for scalability and deployment.
- Stack: Java, Spring Boot, React, MongoDB, Redis, WebSocket, Docker.

Online Quiz Management System Jan 2024 – Feb 2024
(GitHub)

- Built role-based quiz portal with session-authenticated access control, using HTML, JavaScript, PHP, and SQL.
- Engineered a modular system for seamless quiz and evaluation management. Implemented role-based access control for enhanced security. Reduced quiz setup time for admins/faculty by 90%.

Publication

Blood Group Detection via Deep Learning and Fingerprint Imaging
Published in IJRASET, Vol. 13, Issue II – Feb 2025