

SABIHUL HASAN

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EDUCATION

JAMIA MILLIA ISLAMIA Master of Computer Applications CGPA: 9.52/10 Coursework: Operating System; Data Structures & Algorithms; Object Oriented Programming with Java.	Jul 2024 - May 2026 (Expected) New Delhi, Delhi
INTEGRAL UNIVERSITY Bachelor of Computer Applications CGPA: 9.90/10	Jul 2021 - Jun 2024 Lucknow, UP

SKILLS

Technical: Python, Java, Django, FastAPI, MySQL, NumPy, Pandas, scikit-learn, Linux, pytest
Core Competencies: Backend Development, API Development, Microservices Architecture, Testing, CI/CD Pipelines, Docker, Git, AI/ML, Data Structures & Algorithms (200+ problems solved on LeetCode)

PROJECTS

POSTS API CODE • Built a fully functional RESTful API using FastAPI, PostgreSQL, SQLAlchemy, and Alembic for schema migrations. • Implemented JWT-based authentication and authorization to secure endpoints. • Wrote comprehensive unit tests using pytest, ensuring high code coverage and reliability. • Set up CI/CD pipelines with GitHub Actions for automated testing and deployment. • Deployed the API on Railway with seamless integration and scalability. • FastAPI; PostgreSQL; SQLAlchemy; GitHub Actions; CI/CD pipelines.	Aug 2025
MICROSERVICES ARCHITECTURE WITH PYTHON CODE • Designed and implemented a distributed microservices architecture in Python, comprising an API Gateway for request routing, an Authentication Service for secure login and authorization, a Converter Service for file processing, and a Notification Service for system updates. • Deployed and orchestrated services on Kubernetes, achieving scalability, fault tolerance, and service discovery. • Enabled asynchronous communication between services using RabbitMQ message queues. • Python; MySQL; Kubernetes; Docker.	Jul 2025
NETWORK VERIFICATION CODE • Designed and simulated network topologies in Mininet (tree, linear). • Developed Python-based automated verification scripts for connectivity, throughput, and packet loss. • Integrated with pytest for test automation and GitHub Actions for CI/CD pipeline. • Python; pytest.	Jun 2025
COLLEGE MANAGEMENT SYSTEM • Developed a web-based College Management System using Django and MySQL for backend operations. • Designed and implemented modules for attendance tracking, result management, and student information management. • Used Django's admin interface to simplify data entry and manage users with role-based access. • Ensured secure data handling and implemented basic authentication features for different user roles. • Django; Python; MySQL; HTML.	Dec 2024

ADDITIONAL

Languages: English, Hindi

Awards: Awarded Gold Medal for securing 1st position in BCA from Integral University, Lucknow

LINKS

 [Github](#)

 [LinkedIn](#)