

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](#)

Aug 2025

- 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.

MICROSERVICES ARCHITECTURE WITH PYTHON | [CODE](#)

Jul 2025

- 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.

NETWORK VERIFICATION | [CODE](#)

Jun 2025

- 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.

COLLEGE MANAGEMENT SYSTEM

Dec 2024

- 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.

ADDITIONAL

Languages: English, Hindi

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

LINKS

 [Github](#)

 [LinkedIn](#)