

# Md Sadique Shakeel

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## Education

<b>B. Tech in Electronics &amp; Communication Engineering</b> JIS College of Engineering, Kolkata, WB	Expected May 2027 CGPA: <b>7.6/10</b>
<b>Higher Secondary (12th)</b> Patna Muslim High School, Patna, BR	2023 <b>75.80%</b>

## Summary

Passionate software engineering student with strong problem-solving skills and proficiency in data structures and algorithms. Experienced in building scalable web applications and adaptable with modern full-stack frameworks. Focused on writing efficient, maintainable code and delivering impactful solutions.

## Skills

### Technical Skills

- Programming:** Proficient in Java; comfortable with Python for data analysis & ML basics.
- Core Expertise:** Data Structures and Algorithms, backend architecture, and scalable system design.
- Full-Stack Development:** Experienced in building complete web applications and adaptable with modern frameworks and libraries.
- Machine Learning:** Practical understanding of AI & ML workflows & data libraries (Pandas, NumPy, Matplotlib).
- Cloud & DevOps:** Skilled with Git, GitHub, Docker, CI/CD pipelines (GitHub Actions), and cloud deployment using AWS.

### Professional Skills

- Analytical Thinking | Adaptability | Clear Communication | Collaboration | Team Work | Ownership

## Experience

<b>DevOps Intern</b> <a href="#">Certification ↗</a>	Feb 2025 – May 2025
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Youth Dreamers Foundation (YDF), Remote

- Developed and deployed Moodle courses, improving access to quality learning for underprivileged students.
- Streamlined cloud deployment using AWS (**EC2, Amplify, IAM, RDS, Session Manager**) and **Docker**, reducing setup time and improving system reliability.

### Freelance Full-Stack Developer (MERN Stack)

Jan 2025 – Present

- Built & deployed 4 production-grade web applications for clients, implementing backend logic, **RESTful APIs**, and secure authentication.
- Integrated MongoDB, PostgreSQL and Redis for optimized data storage and caching.
- Deployed projects on **AWS using Docker and CI/CD pipelines**, ensuring fast, reliable, and maintainable releases.

## Projects

### GramFlix - Referral System (Live Project) | [gramflix.in ↗](http://gramflix.in)

- Built a **full-stack production-grade MLM platform** with Node.js, Express, MongoDB, Redis, JWT, and Next.js, including live news updates via cron jobs.
- Designed **microservices architecture with API Gateway**, centralized error handling, and JWT-based authentication with role-based access.
- Implemented a **referral-based system** supporting scalable user-management & secure route protection.
- Deployed on **AWS EC2 with CI/CD pipelines**, ensuring automated, reliable, and maintainable releases.

### AI + Quantum-Powered Disaster Relief Optimization | GitHub: [Link ↗](#)

- Designing a system that **predicts disaster impact and optimizes resource allocation** using AI (PyTorch / TensorFlow) and Quantum algorithms (IBM Qiskit, D-Wave Leap).
- Building **data pipelines** for satellite, weather, and IoT inputs to enable real-time predictions.
- Developing **decision engine** & interactive dashboard for authorities & volunteers to enable adaptive, fast response.
- Early-phase prototype demonstrates **AI-driven disaster predictions + quantum-optimized rescue strategies** with high social impact.

## Achievements & Certifications

- Solved 150+ DSA problems** across platforms (50+ on LeetCode) and actively improving algorithmic skills through **Codeforces** contests.
- AI & ML Virtual Internship** ([Eduskills ↗](#)): Gained hands-on experience in ML workflows and predictive modeling.
- Hackathon Participation:** 3x hackathons including [Adobe Hackathon ↗](#);
- NPTEL – Introduction to Database Systems ↗**: Strengthened understanding of SQL fundamentals.