

# MAKWANA GAUTAM

## Backend Developer

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### Summary

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Highly motivated and detail-oriented Fresher Backend Developer with a strong foundation in server-side technologies. Demonstrated expertise in building scalable applications using CI/CD pipelines, Docker containerization, and Redis caching for optimized performance. Proven ability to deliver production-ready solutions. Eager to contribute technical skills and innovative problem-solving to a dynamic development team.

### Technical Skills

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**Backend Technologies:** Node.js, Express.js, RESTful APIs, Database Design

**DevOps & Tools:** Docker, GitHub Actions (CI/CD), Git, Linux

**Databases & Caching:** MySQL, MongoDB, Redis

**Programming Languages:** TypeScript, JavaScript, Python, SQL

**Other Skills:** Microservices Architecture, AWS Cloud Services, System Design & Architecture Patterns

### Projects

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#### Instagram Clone | *Backend Services*

- Architected and built robust backend services for a photo-sharing application, replicating core Instagram functionalities with scalable backend design.
- Designed RESTful APIs for user profiles, media uploads, feed generation, and social interactions, including likes, comments, follows, and messaging.
- Integrated Cloudinary with server-side image processing using Sharp, reducing storage usage by 40%.
- Developed an automated backend server to handle recurring system tasks, background operations, and maintenance workflows.

#### Email Sending Service | *REST API*

- Built a dedicated backend service acting as middleware to send transactional emails through REST API endpoints.
- Internally integrated Google SMTP for email delivery while exposing a clean, provider-agnostic API interface to client applications.
- Designed a flexible template system supporting dynamic HTML and plain-text emails with a retry mechanism to improve delivery reliability.
- Implemented secure API access using API keys, server-side validation, structured error handling, and complete API documentation.

#### Production Backend Deployment | *Node.js, Docker, VPS, Nginx*

- Containerized a Node.js backend using Docker and deployed it on a VPS with automated builds and deployments via GitHub Actions (CI/CD).
- Configured Nginx as a reverse proxy to route HTTP requests, manage ports, and securely expose backend services.
- Implemented environment-based configurations, logging, and process management to ensure stable production operations.
- Enabled domain mapping and an HTTPS-ready server structure with seamless, low-downtime deployment updates.

### Achievements & Certifications

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- **Full Stack Web Development Bootcamp – Apna College (2025):** Completed an in-depth course covering Node.js, Express.js, MongoDB, and modern full-stack development practices.
- **36-Hour Hackathon – Atmiya University, Rajkot:** Successfully participated in an intensive hackathon, collaborating with a team to design and develop a working software solution within strict time constraints.
- **Production Deployment Milestone:** Deployed and maintained a production backend on a VPS using Docker, Nginx, and CI/CD workflows.

### Education

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**Bachelor of Computer Application**

*RK University, Gujarat*

**Graduated: 2026**

*CGPA: 8.85 / 10*