

Rudra Mehta

+91 9664589163 | rudramehta1011@gmail.com | Ahmedabad, Gujarat, 380008
www.linkedin.com/in/rudramehta1011

SUMMARY

Backend Software Engineer specializing in Python, Django, Django REST Framework, and RESTful API development. Experienced in building scalable and secure backend systems, developing real-time features, integrating third-party and AI services, optimizing database operations, and implementing authentication and authorization. Hands-on experience with PostgreSQL, MySQL, Redis, Django Channels, Celery, AWS, Git, and API security, with a strong foundation in system design, performance optimization, and cybersecurity.

TECHNICAL SKILLS

Languages: Python, JavaScript, .NET

Backend: Django, Django REST Framework, FastAPI, Node.js, Express.js

Real-Time & Async: Django Channels, WebSockets, Celery, Redis

Databases: PostgreSQL, MySQL

Cloud & Deployment: AWS EC2, Elastic Beanstalk, S3, CloudFront, CloudWatch

API & Security: RESTful APIs, JWT, Authentication, Authorization, Third-Party API Integration, AI API Integration, VAPT

Tools: Git, GitHub

PROFESSIONAL EXPERIENCE

Software Engineer (Backend Django Developer), Atri Systems, January 2025 to Present.

- Software Engineer with expertise in Django and Django REST Framework (DRF).
- API Development – Design, build, and optimize scalable and secure APIs.
- AI Integration – Integrate AI model APIs into Django applications for enhanced functionality.
- Backend Development – Ensure efficient data handling, authentication, and performance optimization.
- Third-Party Services – Work with external APIs and services to extend application capabilities.
- Security & Best Practices – Implement authentication, authorization, and data protection strategies.
- Performance Optimization – Write clean, efficient, and maintainable code for high-performing systems.

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Software Engineer (Backend Django Developer), Spicules Technologies, June 2023 to December 2024.

- Worked on multiple projects involving API development using Django and DRF.
- Developed real-time features using Django Channels and WebSocket's.
- Implemented caching and task queues with Redis for performance optimization.
- Built admin panels for efficient data management and application control.
- Integrated third-party services to enhance application functionality.
- Optimized database queries and ensured scalable backend architecture.
- Focused on security and best practices for API and system development.

Internship (Backend Django Developer), Spicules Technologies, November 2022 to May 2023.

- Hands-on learning in Django and Django REST Framework (DRF).
- Built foundational knowledge of API development and backend architecture.
- Worked on small projects to apply Django concepts in real-world scenarios.
- Gained experience in authentication, database models, and serializers.
- Explored third-party integrations and API security best practices.
- Developed problem-solving skills through debugging and optimizing code.

PROJECTS

AI Projects

- Developed a platform featuring **24 AI chatbots**, each designed for a different use case and user requirement.
- Built a **shared AI configuration layer** to dynamically provide chatbot-specific context and instructions to a common LLM.
- Designed a reusable architecture where all chatbots use the same core integration and processing logic, reducing code duplication and simplifying maintenance.
- Implemented context-driven prompt handling to generate distinct responses and behaviour for each chatbot using the same underlying LLM.

Payment Gateway Integration

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- Integrated **Stripe Payment Gateway** to support secure online payment processing within the application.
- Implemented **Stripe subscriptions** using Stripe's built-in subscription management and synchronized subscription status with application data.
- Developed **webhook handling** for payment, subscription, invoice, and transaction-related events.
- Implemented **refund workflows** and backend logic for processing refunds and updating transaction records.
- Integrated **Stripe invoice management** and maintained invoice-related data within the application.
- Handled payment failures, subscription status changes, and other Stripe events to keep application data synchronized with Stripe.

Third-Party Service Integrations

- Integrated multiple **third-party services and APIs** into backend applications for authentication, communication, scheduling, notifications, and other application workflows.
- Implemented **Google OAuth** for secure user authentication and account integration.
- Integrated **Google Calendar APIs** for calendar synchronization and scheduling functionality.
- Integrated **Firebase Cloud Messaging (FCM)** for push notifications.
- Integrated **Twilio APIs** for communication-related functionality.
- Configured and integrated **SMTP services** for transactional and application-generated email delivery.
- Implemented **custom authentication middleware for WebSocket connections** to support secure real-time communication.
- Worked with additional external APIs and services involving authentication, webhook processing, API communication, error handling, and data synchronization.

Reusable Django Utilities

- Developed reusable **Django utility modules** to standardize common backend functionality across multiple projects.
- Created shared utilities for **structured API responses**, reusable helper methods, validation, and common backend workflows.
- Built reusable components such as **WebSocket authentication middleware** for secure real-time connections.
- Centralized frequently used backend logic to reduce repeated implementation and improve maintainability across projects.

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- Designed utility modules to be modular, reusable, and adaptable across different Django applications and backend architectures.
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EDUCATION

M.C.A from AMPICS Ganpat University, June 2021 to May 2023

B.C.A from Lokmanya College of Computer Applications Gujarat University, March 2018 to January 2021

CERTIFICATIONS

- Certified Ethical Hacker (CEH) – Pristine InfoSolutions Pvt. Ltd.
- Certified Expert in Penetration Tester (CEPT) – Pristine InfoSolutions Pvt. Ltd.