

Rajat Nair

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Address: Bhilai Nagar, Durg, Chattisgarh (CG)

Software Engineer – Python Developer

SUMMARY

Backend Developer with 2.5 years of experience in designing and implementing robust server-side applications. Skilled in Python, Django, and database technologies such as MySQL, PostgreSQL, and MongoDB. Proficient in developing RESTful APIs, optimizing database queries, and ensuring seamless integration of back-end functionalities with front-end systems. Dedicated to delivering scalable, secure, and efficient solutions tailored to business needs.

IT SKILLS

- **Programming and Frameworks:** Python, Django, Flask, Django REST Framework (DRF), RESTful APIs, Microservices, JSON, XML, RDBMS (MySQL, PostgreSQL), NoSQL (MongoDB), JWT Authentication, Web Services, Cent OS, Apache Kafka, Graphene.
- **Cloud and Deployment:** Deployment using AWS (EC2, S3, RDS, Lambda).
- **Development Tools and Testing:** Git, GitHub, Docker, Postman (API Testing), Jenkins, PyCharm, VS Code.
- **Software Development Methodologies and Integration:** Agile Methodology, Continuous Integration/Continuous Deployment (CI/CD), API Integration, Nginx, Gunicorn.

KEY COMPETENCIES

- Proficient in Python programming language, with strong knowledge of Python 3 features and best practices. Expertise in Django and Django REST Framework (DRF) for building scalable and secure web applications, including microservices.
- Understanding of web application architecture, security principles, HTTP, and browser-server interaction.
- Experienced in creating RESTful APIs, integrating third-party APIs, and utilizing JSON and XML for data exchange.
- Familiar with testing practices and tools like Postman for API testing and Pytest for application testing.
- Strong understanding of implementing security features using JWT, OAuth2, and Django Middleware, as well as validation through Django forms and serializers.
- Skilled in working with RDBMS like MySQL and PostgreSQL, and NoSQL databases like MongoDB. Familiarity with Apache Kafka and RabbitMQ for messaging and event-driven architectures.
- Proficient in using Git and GitHub for version control, Docker for containerization, and IDEs like PyCharm and VS Code for development.
- Experienced in Agile methodology for software development, emphasizing iterative and collaborative workflows.
- Competent in deploying Django applications on AWS Cloud platforms like S3, EC2, Elastic Beanstalk, RDS, and Route 53.
- Expertise in backend integration involving APIs, message queues, and event-driven services with tools like Celery, Redis, and Nginx.

CAREER PROGRESSION

Present (2.1 years) **Elxer Communications Pvt. Ltd**

Since 2023 (4months) **Railworld India Pvt. Ltd**

Projects:

ERP System for Enterprise Management :

Developed a secure, scalable, and modular ERP system using Flask to streamline enterprise operations including inventory, HR, finance and CRM. The system was designed for high performance, seamless integration, and cloud-ready deployment.

Key Highlights:

- Built RESTful APIs with Flask for modular and external system communication
- Implemented JWT authentication & role-based access control (RBAC)
- Deployed on AWS (EC2, S3, RDS) for scalability and fault tolerance
- Designed and optimized MySQL database with indexing and normalized schema
- Integrated email (PDF reports) and SMS notifications
- Used Celery & Redis for asynchronous task processing
- Integrated Stripe/PayPal payment gateways
- Deployed using Nginx & Gunicorn for production stability
- Ensured quality with Pytest unit testing and API documentation via Swagger/OpenAPI

Inventory Management System:

Developed a Django-based inventory management system to track stock availability, issuance, and returns, ensuring accurate inventory control and employee-level accountability.

Key Highlights:

- Built the system using Django to manage stock quantities and inventory records
- Tracked stock issuance and returns for each employee with real-time updates
- Maintained accurate records of available, issued, and remaining stock
- Implemented role-based access for controlled inventory operations
- Ensured data consistency and integrity using relational database models
- Generated reports to monitor stock usage and prevent inventory discrepancies

NAS Log Data Processing System:

Developed a scalable Python-based log processing system to collect, clean, structure, and store logs from multiple sources in MongoDB, enabling faster diagnostics, monitoring, and data-driven decision-making.

Key Highlights:

- Automated log collection from files, APIs, and external services using Python
- Cleaned and validated raw logs using regular expressions and data quality checks
- Transformed unstructured logs into standardized, structured formats
- Designed and implemented MongoDB schemas for efficient log categorization and querying
- Optimized performance using batch processing and near real-time log ingestion
- Implemented alerting via email/SMS for critical errors and system failures
- Ensured reliability with robust exception handling, unit testing, and Python logging
- Managed version control with Git/GitHub and documented the full pipeline for scalability

EDUCATION

- ***CDAC*** , Postgraduation Diploma in Bigdata Analytics(PGDBDA),64%
- ***Bachelors in Technology***, Chhattisgarh Swami Vivekanand Technical University (C.S.V.T.U), 63.6%
- ***12th Standard***, Chhattisgarh Board of Secondary Education (C.G.B.S.E Board), 55%
- ***10th Standard***, Central Board of Secondary Education (C.B.S.E Board), 70%

PERSONAL DETAILS

Interests: Listening to music | Travelling | Stock Trading | Reading Books

REFERENCES AVAILABLE ON REQUEST