Jaydeep Goswami

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BACKEND SOFTWARE ENGINEER

Results-driven backend developer with **3+ years of industry experience** in designing and implementing scalable backend solutions. Strong expertise in **Python, Django REST Framework, and database management** with a deep understanding of **message brokers and API development**. Passionate about building high-performance applications with optimized data processing and seamless system integration.

SKILLS

- **Languages:** Python, JavaScript
- **Backend Frameworks:** Django REST Framework, Flask
- **Databases:** PostgreSQL, MySQL, SQL, Redis, Cassandra
- **ORM & Data Access:** SQLAlchemy, ORM
- **Messaging & Streaming:** RabbitMQ, Celery
- **DevOps & Cloud:** AWS, GCP, Docker, Kubernetes, Jenkins, CI/CD
- **Data Processing:** Pandas, NumPy, Elasticsearch
- **Tools:** Git, GitLab, Jira
- **Authentication & Testing:** JWT, Unit Testing, Pytest
- **Methodologies & Practices:** Agile, Problem-Solving

EXPERIENCE SUMMARY

- Backend Software Engineer with 3+ years of experience designing and developing scalable, high-performance web applications using Python and Django REST Framework, following object-oriented design principles.
- Strong expertise in building RESTful APIs, microservices, and implementing asynchronous and multi-threaded processing using RabbitMQ, Celery, and Redis.
- Hands-on experience with Docker, Kubernetes, Jenkins, and CI/CD pipelines for containerized deployments and production-ready systems.
- Proficient in working with SQL (PostgreSQL, MySQL) and NoSQL (Cassandra, MongoDB) databases, including schema design and query optimization.
- Experienced in performance tuning, caching strategies, debugging, and production issue resolution, resulting in improved system stability and response times.
- Collaborative team player with experience working in Agile environments, partnering with QA, DevOps, and cross-functional teams to deliver reliable backend solutions.

PROJECT SUMMARY

VVDN Technologies   **Gandhinagar**
Software Engineer,   October (2022) - Present

HFCL - Element Management System   October (2022) - Present

Python | Pandas | RabbitMQ | Redis | Celery | Django | REST APIs | Cassandra | Kubernetes | Docker

- Developed and optimized backend services using **Python and Django Rest Framework** for a large-scale **cloud-based network EMS platform**.
- Integrated **Redis, RabbitMQ, Docker, and Kubernetes** to improve system efficiency and scalability.
- **Optimized Elasticsearch integration**, reducing search latency and improving data retrieval times by **50%**, enhancing user experience for large-scale queries.
- **Reduced API response times by 40%** using **Pandas for batch data processing and threading for parallel execution**, significantly improving system performance.
- **Implemented Redis caching and optimized database queries using bulk inserts and batch processing**, reducing redundant DB calls and improving response time by **30%**, while lowering server load by **45%**.
- Actively contributed to **bug resolution** and performance tuning, ensuring system stability in production.
- Used **JIRA** for project management and **Git** for version control.

MExS - Manufacturing Execution System   October (2023) - April (2024)

Python | Redis | Celery | PostgreSQL | Linux | Postman | Docker | Django

- Built an MES-style traceability system to monitor PCB flow through an SMT assembly line.
- Logged real-time process data for each board, including station entry, component mounting stages, and final pass/fail outcomes.
- Automated defect tracking and rejection logging to support quality analysis and compliance audits.
- Took ownership of backend components for an MES-style traceability system deployed on a live SMT assembly line.
- Led requirement discussions with production and quality teams to translate shop-floor workflows into system features.
- Supported live production deployments and onsite issue resolution under operational constraints.
- Collaborated with cross-functional stakeholders to gather requirements, plan sprints, and prioritise features.
- Designed and managed **PostgreSQL** schemas for structured manufacturing and traceability data.
- Used **Docker** to containerise services and support consistent deployment across environments.

EARLY EXPERIENCE & EDUCATION

VVDN Technologies Pvt Ltd.   **Ahmedabad**
Trainee - Software Engineer   June (2022) - September (2022)

Zummit Infolabs   **Remote**
AWS Intern   January (2022) - May (2022)

Gujarat Technological University   **Gandhinagar**
Bachelor's of Engineering   June(2022)
- **CGPA:** 8.22/10