

JAYDEEP GOSWAMI

Backend Software Engineer

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PROFESSIONAL SUMMARY

Backend Software Engineer with 3+ years building distributed, cloud-scale systems at VVDN Technologies. Delivered measurable production impact 40% API latency reduction, and 45% server load reduction through Redis caching, async pipelines (RabbitMQ/Celery), and Cassandra query optimization. Seeking a senior backend role where I can architect high-throughput systems and grow toward tech lead responsibilities.

SKILLS

- **Languages:** Python, JavaScript
- **Frameworks:** Django REST Framework, FastAPI, Flask
- **Databases:** PostgreSQL, MySQL, Cassandra, MongoDB, Redis
- **Messaging:** RabbitMQ, Celery, Redis Pub/Sub
- **DevOps & Cloud:** AWS, GCP, Docker, Kubernetes, Jenkins, CI/CD pipelines
- **Data Processing:** Pandas, NumPy, Pydantic
- **Auth & Security:** JWT, OAuth2
- **Testing & Tools:** Pytest, Postman, Git, GitLab, Jira, Linux
- **Practices:** Microservices, REST API Design, ORM (SQLAlchemy), Agile

EXPERIENCE

VVDN Technologies — Software Engineer

Gandhinagar, Gujarat | October 2022 – Present

HFCL – Element Management System

October 2022 – Present

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

- Architected backend services for a cloud-scale network EMS platform managing 500+ network devices, using Python, Django REST Framework, and Cassandra for high-throughput device telemetry ingestion.
- Built async event pipelines using RabbitMQ and Celery for decoupled, fault-tolerant processing of device configuration and alert events at scale.
- Improved system performance by 20% through Pandas-based batch data processing and Python threading for parallel execution across device polling cycles.
- Designed a Redis caching layer and optimized Cassandra bulk-write pipelines, cutting redundant DB calls by 30% and reducing server load by 45% under peak traffic.
- Deployed and maintained services on Kubernetes with Docker containerization, supporting zero-downtime rollouts in production.

MExS – Manufacturing Execution System

October 2023 – April 2024

Python · FastAPI · Redis · Celery · PostgreSQL · Docker · Linux · Postman

- Built a real-time PCB traceability system using FastAPI and PostgreSQL, tracking board lifecycle across 8+ SMT assembly stations with per-stage pass/fail logging.
- Automated defect detection and rejection logging using Celery async tasks, reducing manual QA logging effort and improving audit turnaround time.
- Designed and managed PostgreSQL schemas for structured manufacturing and traceability data, enabling compliance-ready audit trails.
- Led requirement-gathering sessions with production and quality teams, translating shop-floor workflows into actionable sprint features in Agile cycles.

- Drove live production deployments and resolved onsite issues under real operational constraints, ensuring zero disruption to the assembly line.
- Containerized all services with Docker to ensure environment consistency across development, staging, and production.

EARLY EXPERIENCE

Trainee – Software Engineer | VVDN Technologies, Ahmedabad | June 2022 – September 2022

AWS Intern | Zummit Infolabs (Remote) | January 2022 – May 2022

EDUCATION & CERTIFICATIONS

Bachelor of Engineering | Gujarat Technological University, Gandhinagar | June 2022 | CGPA: 8.22/10