

Chandanbala Jangid

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PROFILE

Backend Software Engineer with 4+ years of experience building scalable cloud-native applications, distributed services, and secure APIs for high-volume platforms. Develops asynchronous Python and FastAPI microservices using PostgreSQL, Redis, Kafka, Docker, Kubernetes, and AWS to improve transaction processing, system reliability, and deployment efficiency. Integrates generative AI capabilities through Amazon Bedrock, LangChain, RAG, vector search, and AI guardrails while applying automated testing, observability, authentication, and CI/CD practices to deliver production-ready backend systems.

SKILLS

- **Programming & Backend Frameworks:** Python, SQL, JavaScript, TypeScript, FastAPI, Django, Flask, Pydantic, SQLAlchemy, Celery, asyncio, Pandas
- **API & Distributed Systems:** REST APIs, GraphQL, Microservices Architecture, Event-Driven Architecture, API Gateway, WebSockets, Webhooks, OAuth 2.0, JWT Authentication, RBAC, Rate Limiting, Idempotency, Circuit Breakers
- **Generative AI & Intelligent Applications:** Large Language Models, Retrieval-Augmented Generation, LLM Integration, Prompt Engineering, Vector Embeddings, Semantic Search, LangChain, Amazon Bedrock, OpenSearch Vector Search, LLM Evaluation, AI Guardrails
- **Cloud & DevOps:** AWS (EC2, EKS, Lambda, S3, RDS, API Gateway, Cognito, CloudWatch), Docker, Kubernetes, Terraform, GitHub Actions, AWS CodePipeline, Jenkins, Linux, CI/CD Pipelines
- **Databases, Caching & Messaging:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, OpenSearch, Apache Kafka, RabbitMQ, Redis Streams, Data Modeling, Query Optimization, Indexing, Partitioning, Connection Pooling
- **Testing, Observability & Engineering:** Pytest, Unittest, Postman, Swagger/OpenAPI, Selenium, Locust, Prometheus, Grafana, ELK Stack, Unit Testing, Integration Testing, Load Testing, TDD, Git, Jira, Agile/Scrum, Code Reviews, System Design, Data Structures, Algorithms

PROFESSIONAL EXPERIENCE

PayPal

Software Developer

Aug 2024 - Present

Remote, USA

- Modeled merchant transaction investigation workflows through FastAPI services that unified payment, refund, dispute, and webhook events into consistent case timelines for support teams handling recurring exceptions.
- Integrated Kafka consumers with PostgreSQL persistence to process asynchronous status changes, reducing case data refresh latency by 32% during high-volume merchant transaction periods without polling overhead.
- Configured idempotency keys, webhook signature validation, OAuth 2.0 authorization, and rate limiting to prevent duplicate updates while protecting sensitive merchant investigation endpoints from unauthorized access.
- Extended platform workflows in 2025 with a LangChain RAG assistant using Amazon Bedrock and OpenSearch vector retrieval, reducing investigation time by 24% across payment exceptions.
- Applied AI guardrails, role-based access controls, PII redaction, and source citations to keep generated guidance grounded in approved operational documents and investigation procedures before analyst review.
- Deployed Dockerized services to Kubernetes through GitHub Actions, with Pytest, Prometheus, and Grafana checks reducing failed releases by 18% across monthly production deployments and rollback validations.

Zomato

Software Developer

Jun 2021 - Jul 2023

Hyderabad, India

- Mapped restaurant order lifecycle states across acceptance, preparation, rider assignment, dispatch, and cancellation, translating operational rules into Django service logic and MySQL models for fulfillment teams.
- Optimized MySQL queries and Redis cache policies for restaurant menus and order lookups, lowering median API response time by 28% during peak meal traffic periods.
- Implemented Celery workers with RabbitMQ to coordinate restaurant acknowledgments, timeout handling, and rider notifications without blocking customer-facing order placement requests during lunch and dinner demand surges.
- Automated retry and reconciliation jobs for delayed partner callbacks, reducing unresolved status mismatches by 31% and manual support checks by 22% across daily order volumes.
- Validated order-state transitions using Unittest, Postman, and contract fixtures, covering cancellation, payment reversal, restaurant rejection, and duplicate callback scenarios before releases across staged partner integration environments.

- Monitored Django services through ELK dashboards and configured Jenkins deployments on AWS EC2, shortening incident diagnosis by 26% while preserving rollback readiness during high-volume service disruptions.

EDUCATION

Master of Science, Computer Science

University of Bridgeport

Sep 2023 - May 2025

Bridgeport, USA

Bachelor of Science, Computer System And Engineering

Loyola Degree College

Jun 2019 - May 2022

Hyderabad, India