

KUNJ RANPURA

Backend Engineer | Scalable Systems | Data Pipelines | Python | AWS | Operational Excellence
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PROFESSIONAL SUMMARY

Backend engineer with 5+ years of experience designing production APIs, event-driven services, high-throughput data pipelines, and cloud-hosted platforms. Proven ability to build scalable systems that ingest, transform, and process high-volume data across distributed services. Experienced with Python, FastAPI, PostgreSQL, Redis, and AWS—including async processing workflows, queue-based architectures, and complex orchestration across databases, caches, and third-party integrations. Strong track record in operational excellence: production monitoring, incident response, release governance, and cross-functional collaboration with product, AI/ML, and data teams.

ROLE-MATCHED STRENGTHS

Scalable Backend Systems

REST APIs, async processing, queue-based services, microservice decomposition, and database/cache optimization at scale.

Data Pipelines & Orchestration

Ingestion, transformation, validation, and sync pipelines across cloud services, databases, and enterprise platforms.

Operational Excellence

Production releases, monitoring, incident response, deployment governance, compliance operations, and defect follow-through.

WORK EXPERIENCE

Software Engineer II | Gallup

August 2023 – Present | Berlin, DE

- Re-architected a high-volume async processing workflow to scrub, transform, queue, and dispatch up to 400,000 messages in ~20 minutes, replacing a legacy pipeline that took 10–12 hours—through parallelized job execution, queue-based orchestration, and pipeline redesign.
- Designed and built event-driven integration layers and ETL pipelines to synchronize data across Oracle, Salesforce, and an internal platform, supporting platform modernization without service disruption.
- Built data lineage tracking for MySQL clusters and legacy pipelines using OpenMetadata and Snowflake, with Python and FastAPI powering the backend services and ingestion workflows—improving traceability, impact analysis, and cross-team visibility into data dependencies.
- Implemented AWS-based delivery-status and bounce-processing workflows using SES, SNS/SQS, EventBridge, and background jobs, improving observability, reliability, and sender-reputation controls at scale.
- Architected an internal Database Object Deployment platform automating multi-environment database deployments, reducing manual release risk and improving deployment consistency across teams.
- Drove decomposition of a monolithic application into independently deployable, horizontally scalable microservices, improving resilience, maintainability, and feature delivery velocity.
- Own EU-region application deployment lifecycle including bi-weekly production releases, incident response, monitoring, and operational stability across compliance-sensitive systems.
- Maintain GDPR-aligned operations by coordinating with legal, compliance, and cross-regional stakeholders on data residency, data-subject workflows, and audit readiness.
- Mentored 3 interns and 2 junior engineers through design reviews, pairing, and production-quality feedback.

Stack: Python, FastAPI, C#.NET, REST APIs, AWS (SES, SNS/SQS, EventBridge, ECS, Lambda), Terraform, PostgreSQL, MySQL, MSSQL, Redis, OpenMetadata, Snowflake, Hangfire, Docker, CI/CD, Dynatrace, Playwright, SonarQube

Software Engineer | NYC Dept. of Education (Contract)

February 2022 – August 2023 | North Brunswick, NJ

- Designed and delivered a real-time health and observability platform consolidating telemetry from 5 applications, giving engineering teams unified visibility into performance, system health, and error states.
- Engineered telemetry collection and analysis pipelines to interpret user behavior and system performance signals, informing modernization roadmaps and feature prioritization.
- Built backend services across cloud-hosted systems using C#, ASP.NET Core, SQL, Azure, and modern observability tooling—delivering observability tooling ahead of schedule.

Stack: C#, ASP.NET Core, REST APIs, SQL, Azure, Grafana, Dynatrace, Splunk, OpenTelemetry, Angular

Software Developer Intern | Damco Solutions Inc

January 2021 – August 2021 | Princeton, NJ

- Migrated a legacy stored-procedure-based data layer to a structured ORM architecture, improving maintainability, testability, and onboarding speed.
- Resolved critical production issues across client-facing systems, restoring service stability and supporting revenue-generating operations.

- Collaborated across Development, QA, and Production Support to tighten validation and testing cycles, reducing post-release defects by 25%.

Stack: C#, ASP.NET Core, Entity Framework, SQL, NoSQL, REST APIs

Full Stack Engineer | Innotics Computech LLP

August 2018 – August 2019 | Nashik, India

- Designed, developed, and maintained full-stack web applications and REST APIs, including a guest registration system that streamlined event management workflows.
- Collaborated cross-functionally to deliver web applications aligned with business requirements, contributing to a 20% uplift in reported user satisfaction.

Stack: C#, ASP.NET Core MVC, REST APIs, React.js, MySQL, Redis

TECHNICAL SKILLS

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| Languages | Python, C#, JavaScript, TypeScript, Java; comfortable working across Go, Node.js, and mixed service stacks |
| Backend & APIs | FastAPI, Flask, .NET 8/10, ASP.NET Core, REST API design, OpenAPI contracts, async processing, ETL pipelines, microservices, distributed systems, queue-based orchestration |
| Cloud & DevOps | AWS (EC2, ECS, S3, SNS, SQS, EventBridge, Lambda, Cognito); Terraform, Docker, GitHub Actions, CI/CD; exposure to Fargate, CDK, Step Functions, Kubernetes patterns |
| Data & Caching | PostgreSQL, MySQL, MSSQL, DynamoDB (familiar), Snowflake, Redis, Cassandra, RabbitMQ, OpenMetadata, Entity Framework, Dapper |
| Observability | OpenTelemetry, Dynatrace, Splunk, Grafana, Playwright, SonarQube, production monitoring, incident follow-through |
| AI & LLM Workflows | LLM-assisted design, implementation planning, code review, test-case generation, debugging, and documentation workflows; experience iterating on non-deterministic systems |

EDUCATION

Master's in Computer Science | University of Texas at Arlington | December 2021 | Arlington, TX

Bachelor of Engineering in Computer Engineering | Savitribai Phule Pune University | July 2019 | Pune, India