

Sanjay Prakash

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of experience designing and delivering scalable, cloud-native solutions in retail, automotive, IoT, and energy sectors. Specialized in real-time data streaming, microservices architecture, and event-driven systems using Azure, AWS, Kubernetes, and Apache Kafka. Proven ability to modernize legacy architectures, optimize latency, and build secure, enterprise-grade data platforms. Strong background in CI/CD automation, data mesh topology, and distributed systems, with multiple cloud and data engineering certifications.

CORE SKILLS

Kubernetes | Confluent cloud | Apache Flink | Terraform | Github | Apache Kafka | Azure | Databricks | FastAPI | Python | Terraform | ArgoCD | AWS | Spring Boot | Java | Docker |

WORK EXPERIENCE

Apr 2022 – current

Senior Software Engineer
Data Reply GmbH, Munich, Germany

Luxury retailer, Spain

- Modernized retail software architecture to improve system responsiveness and reduce latency by 40%, and enabling real-time operational decision-making.
- Designed and implemented a data transformation layer using Apache Flink with Flink SQL, processing millions of events per day with sub-second latency.
- Provisioned and automated Kafka clusters and supporting infrastructure on Confluent Cloud with Terraform, reducing deployment time by 70% and ensuring 99.9% uptime.
- Delivered real-time data streams for critical retail functions, automated new product inserts, instant price update alerts, and stock update notifications within seconds.

Automotive software provider, Germany

- Led end-to-end development of a cloud-native Data Access and Sharing Hub on Azure microservices architecture, implementing a governance layer within the organization's data mesh topology to securely share and consume data products.
- Designed and deployed an enterprise data catalog with a REST API framework using FastAPI on Python, supporting 10+ data formats, reducing data discovery and integration time by 70%.
- Engineered a secure access management system leveraging Databricks Delta Sharing with Unity Catalog for governed data distribution.
- Developed an asynchronous event-driven notification delivering real-time alerts to data owners via email and portal notifications providing real-time monitoring and alerts.
- Enhanced deployment efficiency with advanced CI/CD automation using Helm, ArgoCD, GitOps during release cycles and improved mean time to deploy by 75%.

IoT device manufacturer, Germany

- Implemented real-time sensor data streaming with dynamic filtering, processing 100K+ events per second and reducing downstream data noise by 35%.
- Developed WebSocket and Kinesis consumers in Spring Boot, improving data ingestion throughput by 40% and ensuring sub-second latency.
- Deployed microservices on AWS Fargate, achieving auto-scaling to handle traffic spikes of 5x while reducing infrastructure management overhead by 50%.
- Integrated AWS Cognito for API authentication, enabling secure access for 10K+ users with 99.9% authentication success rate and compliance with enterprise security standards.

Apr 2019 – Mar 2022

Software Developer

PSI Software AG, Dortmund, Germany

- Developed and maintained Java-based microservices for power grid management
- Implemented event-driven architecture with Apache Kafka, enabling parallelized computation for grid state estimation that cut processing time by 50% and doubled throughput capacity.
- Led containerization and orchestration of services using Docker and Kubernetes, reducing deployment time from hours to minutes and enabling auto-scaling to handle 5x load spikes.
- Served as Technical Project Lead for the IDiNA research project, coordinating 10+ cross-functional researchers, aligning technical delivery with project goals, and completing milestones 15% ahead of schedule.
- Designed and implemented RESTful APIs for an Enterprise Service Bus using JAX-RS, enabling modular integration across 20+ enterprise systems.

EDUCATION

University of Applied Sciences Darmstadt, Germany | 09.2018 – 08.2020 | Grade: 1.8

Master of Science in Electrical Engineering, Embedded Systems Major

The National Institute of Engineering, Mysore, India | 08.2013 – 07.2017 | CGPA: 9.3

Bachelor of Engineering, Electronics and Communication

ADDITIONAL INFORMATION

Languages German (Basic, A2), English (Fluent, B2), Kannada (Native)

Certification	AWS Certified Solutions Architect - Associate (SAA) Certified Kubernetes Application Developer (CKAD) Confluent Certified Developer for Apache Kafka (CCDAK) Confluent Certified Administrator for Apache Kafka (CCAACK) Databricks Data Engineer Associate
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