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Top Skills

openai sdk
langgraph
OpenAI API

Certifications

Langchain
Certified Scrum Professional (CSP)
Agentic AI
Associate Cloud Engineer

Arunkumar Selvaraju

Technical Lead | Specializing in GenAI, LLM, Vector DB, RAG,
Agentic AI | Java, Microservices, Python, GCP Cloud Engineer
Frankfurt, Hesse, Germany

Summary

As a Technical Lead, Germany, with 14 years of experience specializing in the design and development of robust microservices and cutting-edge Generative AI applications. I drive the adoption of Java 17, Spring Boot, REST, GraphQL, JUnit, Mockito, and Kafka, establishing best practices for high-performance systems. My expertise extends to optimizing CI/CD pipelines with CircleCI, Docker, and Kubernetes. I've also designed, configured, and leveraged advanced monitoring (Prometheus, Humio, Grafana, Datadog) and security tools (Vault) to ensure system reliability and integrity.

I am actively building Generative AI solutions with Python, LLMs, Langchain, Openai sdk, Vector Databases to enhance product capabilities and operational efficiency. My work also encompasses significant experience in big data technologies, including data transformation with Sqoop and large-scale processing with Apache Spark, and developing complex data search solutions using Elasticsearch. I am proficient in Drools, JBPM, Scala, and SQL, and with extensive hands-on experience in GCP, I am adept at architecting scalable and efficient cloud-based solutions, including those leveraging AI/ML services

Experience

LivePerson

Technical Lead

May 2022 - Present (3 years 7 months)

Frankfurt, Hesse, Germany

- * Architected microservices by modernizing a legacy monolith using Spring Boot, Spring JPA, Spring Batch, Kafka, GraphQL, and REST APIs.
- * Adopted CQRS and schema-driven architecture to design scalable, loosely coupled microservice solutions aligned with modern integration patterns.

- * Led cloud migration by containerizing on-prem services with Docker and Kubernetes, deploying via GitLab CI/CD to Google Kubernetes Engine (GKE).
- * Replaced NGINX-based service mesh with Istio, optimizing resource utilization and reducing the number of services for streamlined operations.
- * Implemented rate limiting and DPoP (Demonstration of Proof-of-Possession) for secure, compliant API authorization and traffic control.
- * Building RAG Applications with Langchain, Vector Database, Fast API and LLMs.
- * Building apps with agentic AI like openai sdk, langgraph, crew.ai, autogen and MCP servers

BESTSELLER

3 years 3 months

Senior Developer

January 2020 - May 2022 (2 years 5 months)

Brande, Middle Jutland, Denmark

- * Integrated Elasticsearch into the system, achieving a 98% improvement in search performance and response time.
- * Played a key role in the design and development of the BOM system, supporting core functions like resource management, labeling, manufacturing, and shipment in retail operations.
- * Mentored and onboarded junior developers into the new microservices architecture and tech stack, accelerating team adoption and delivery.

Developer

March 2019 - January 2020 (11 months)

Denmark

- * Architected microservices by modernizing a legacy monolith using Spring Boot, Spring JPA, Spring Batch, Kafka, and RESTful APIs.
- * Enabled seamless CI/CD deployments across environments by configuring pipelines in CircleCI and GitLab.
- * Containerized and deployed the application using Docker and Kubernetes on Microsoft Azure, ensuring scalable and resilient infrastructure.

Cognizant

Team Lead

July 2013 - March 2019 (5 years 9 months)

Chennai

Lead Skills

- * Managed project estimation, technical design and architectural documentation, aligning solution architecture with business goals and deliverable roadmap.
- * Collaborated with clients and cross-functional teams to gather and finalize business requirements, drove project planning, budgeting, and ensured timely delivery through effective coordination across teams.
- * Led a team of 10 engineers, managed implementation of Drools and BPMN tools, and worked on Spark Streaming, Apache Kafka, and Oozie for automation and messaging.

Technical Skills

- * Developed core modules for the HNFS Tricare project using Apache Spark (Scala) on migrated data via Sqoop and Flume for precognitive breakdown analysis.
- * Designed rule sheets, performed requirement analysis, and led team training on Hadoop ecosystem tools including Spark, Hive, and HDFS.
- * Extensively used Elasticsearch and Kibana for real-time data visualization and diagnostics, while ensuring performance through coding best practices and optimization.

Scope International

Senior product Analyst

September 2011 - June 2013 (1 year 10 months)

- *Solely led jBPM integration in the eOPS project, replacing FileNet as part of the externalization initiative and developing custom workflow models.
- * Configured and deployed open-source stack (JBoss, MySQL, JCR, jBPM) for eOPS, ensuring smooth cross-platform compatibility and performance.
- * Designed workflows, Drools rules, and managed them using Guvnor Repository; developed a custom admin console and BIRT-based reporting framework.
- * Collaborated with Red Hat consultants to resolve performance bottlenecks and deployed the complete open-source solution at client sites with ongoing support.

Wipro Technologies

Project Engineer

May 2009 - September 2011 (2 years 5 months)

Pune, Maharashtra, India

- * Developed core login and User Entitlement modules for CITI RVB R1, and resolved defects across DIT, SIT, and UAT phases.

- * Improved application security and performance by addressing VAPT (ethical hacking) issues and supporting production stability.
- * Contributed to CITI RVB R2 frontend CRs and defect fixes, and led code merging between R1 and R2 releases.
- * Handled backend and business logic for three applications, resolving CRs, incidents, and production bugs efficiently.

Education

Anna University

Bachelor of Engineering - BE, Electrical, Electronics and Communications Engineering · (2004 - 2008)