

Abubakar

Senior Java Software Engineer

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PROFESSIONAL SUMMARY

Senior Java Software Engineer with more than 10 years of experience building, modernising, and supporting business-critical backend systems across insurance and pensions, digital banking, fintech, retail, media streaming, and utilities. Strong hands-on expertise in Java, Spring Boot, microservices, REST and SOAP APIs, databases, system integration, and CI/CD. Owns work from requirement analysis and solution design through implementation, testing support, release coordination, and production delivery. Current work includes Java 21 platform modernisation and internal custom GPT solutions, supported by independent Spring AI projects using RAG, conversational memory, and multiple LLM providers. Seeking a senior Java software engineering role that values backend depth, ownership, and responsible AI adoption.

TECHNICAL SKILLS

Languages: Java (Core Java through Java 21), SQL, JSP

Backend & Frameworks: Spring Boot, Spring Framework, Spring Cloud, Spring MVC, Java EE/J2EE, JPA, Hibernate, MyBatis, Microservices, Apache Wicket

Architecture & Integration: REST APIs, SOAP Web Services, SOA, system integration, Apigee API Management, SAP Mobile Platform, USSD, Google Maps API

Databases & Messaging: Oracle Database, Sybase, MySQL, PostgreSQL, MongoDB, Apache Kafka, RabbitMQ, ActiveMQ, Redis

Cloud, DevOps & Platforms: Microsoft Azure, Walmart Cloud Native Platform (WCNP), Docker, Jenkins, CI/CD, Maven, Git, SVN, WebLogic, Tomcat, Linux; Kubernetes (self-learning)

Security & Quality: OAuth 2.0, JWT, SSL, AES/RSA, unit testing, code reviews, root-cause analysis, production support, release management

AI & Generative AI: Custom GPTs (professional); Spring AI, Retrieval-Augmented Generation (RAG), vector embeddings, conversational memory, prompt engineering, OpenAI, Anthropic Claude, Google Gemini, Ollama (independent)

Methods & Domains: Agile/Scrum, solution architecture; insurance and pensions, digital banking, fintech, retail, media streaming, smart metering/utilities

PROFESSIONAL EXPERIENCE

Software Engineer | Keylane

Jul 2023 - Present

Utrecht, Netherlands | *LeanApps Life - life insurance and pension administration platform*

- Design and implement customer-requested and regulatory changes for a business-critical platform covering policy administration, insurance products, pension processes, calculations, customer communication, and integrations.
- Own features and production fixes end to end: requirement analysis, technical investigation, implementation, testing support, release coordination, and delivery.
- Resolve complex functional and technical issues with a strong focus on system stability, data accuracy, and maintainable solutions across data models, external interfaces, and communication processes.
- Contribute to Java 21 platform modernisation, framework and dependency upgrades, and remediation of known security vulnerabilities.
- Collaborate in an international Scrum team with developers, testers, delivery consultants, and functional specialists in the Netherlands and India.
- Built internal custom GPT solutions to review sprint progress, identify blockers and delivery risks, and improve access to company knowledge.

Technologies: Java 21, Spring Boot, Java EE/J2EE, JPA, SOAP Web Services, Oracle Database, WebLogic, JSP, Maven, Jenkins, Git

Senior Software Engineer | Freelance

Jan 2023 - Jun 2023

Europe | *Smart Meter Management System - utilities*

- Delivered Java backend changes from Jira requirements and supported the development team through implementation and issue resolution.
- Worked with Apache Kafka and MongoDB while translating functional requirements into maintainable software.

Technologies: Java, Apache Kafka, MongoDB, Jira

Principal Software Engineer | Easypaisa Digital Bank

Aug 2021 - Jan 2023

Lahore, Pakistan | *Formerly Telenor Microfinance Bank | Branchless banking and mobile-wallet platform*

- Designed and developed backend functionality for new mobile application features using Java, Spring Boot, Spring Cloud, microservices, and REST APIs.
- Implemented in-app biometric verification, enabling customers to complete identity verification through the mobile application.
- Provided high-level technical leadership across development teams, supported onboarding and mentoring, and helped coordinate delivery and resolve technical challenges.
- Resolved a critical backend issue affecting the mobile application and received a formal appreciation letter for the contribution.
- Supported production deployments and high-priority war-room incidents, and managed approved code merges into Staging and Production branches.

Technologies: Java, Spring Boot, Spring Cloud, Microservices, REST APIs, JPA, MyBatis, MySQL, RabbitMQ, Redis, Jenkins, GitLab

Senior Software Engineer | Confiz

Oct 2020 - Jul 2021

Pakistan | Enterprise retail and fintech applications

- Contributed to the Walmart Use Tax application's migration to Microsoft Azure and later to Walmart Cloud Native Platform, including Jenkins deployment automation and multi-environment configuration.
- Developed backend enhancements for a Bahrain loan application and set up Docker-based Development, QA, and UAT environments.
- Worked in Agile teams on technical analysis, backend development, cloud migration, environment setup, and delivery support for international clients.

Technologies: Java, Spring Boot, Microservices, JPA, PostgreSQL, Microsoft Azure, WCNP, Docker, Jenkins, GitHub, Linux

Senior Software Engineer | ShopDev

Aug 2020 - Sep 2020

Lahore, Pakistan | STARZPLAY media-streaming platform

- Maintained and enhanced Java and Spring Boot backend services for the STARZPLAY media-streaming platform.
- Investigated REST API defects, identified root causes, and delivered fixes in collaboration with cross-functional team members.

Technologies: Java, Spring Boot, Spring Cloud, Microservices, REST APIs, JPA, RabbitMQ, Redis, MySQL, GitLab, Maven, Jira

Abacus Consulting

Nov 2013 - Aug 2020

Lahore, Pakistan | Upaisa branchless banking and mobile-wallet platform

Senior Consultant (Jul 2018 - Aug 2020) | Consultant (Nov 2015 - Jun 2018) | Research Associate (Nov 2013 - Oct 2015)

- Progressed from Research Associate to Senior Consultant while delivering backend, web portal, USSD, and third-party integration functionality across the Upaisa platform.
- Developed complex banking features including customer registration, biometric verification, fund transfers, bill payments, remittances, loans, ATM transactions, account linking, and regulatory transaction data.
- Contributed to the migration of the full branchless banking implementation to a newer SAP Mobile Platform version while maintaining data integrity and system stability.
- Owned major mobile-app backend components, including multi-step customer onboarding, location-based agent and retailer services, bulk CSV processing of up to approximately 1,000 records, and database schedulers.
- Provided high-level team leadership and solution architecture support through estimation, code reviews, client coordination, production support, deployments, and release management.
- Configured Google Apigee API monetisation for Telenor in a multi-node topology and enforced client-specific API pricing.

Technologies: Java, Spring, Spring MVC, Hibernate, Apache Wicket, SOA/SOAP, SAP Mobile Platform (Sybase 365/Mobiliser), USSD, Oracle, Sybase, Maven, SVN, Tomcat, Apigee, AES/RSA

INDEPENDENT PROJECTS

Applied AI and Spring AI Prototypes | Personal / Self-learning

Jan 2025 - Present

- Built Java and Spring AI prototypes that integrate OpenAI, Anthropic Claude, Google Gemini, and local Ollama models, with experiments around provider switching and fallback strategies.
- Implemented Retrieval-Augmented Generation (RAG) workflows over application-specific documents using vector embeddings and conversational memory.
- Evaluated prompt design, token usage, response quality, privacy, performance, and cost trade-offs; currently exploring tool-enabled and agentic workflows.

Technologies: Java, Spring AI, RAG, LLM Integration, Vector Embeddings, Conversational Memory, Prompt Engineering, Ollama

EDUCATION

Bachelor of Science in Computer Science (BSCS) | COMSATS Institute of Information Technology, Lahore, Pakistan | Feb 2013

CERTIFICATIONS

Apigee API Engineer (Google) | APIs Development | Dec 2018

RPA Certified (UiPath) | Robotics | Jun 2018

LANGUAGES

English - Professional proficiency | **Urdu and Punjabi** - Native | **Dutch** - Beginner