Shakil Jansberg

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Munich, Germany
German Citizen | Available immediately | Willing to Relocate

Profile: Full Stack Developer | Java/Spring Boot & TypeScript/Angular | Expert in CI/CD, Test Engineering & System Resilience | DevSecOps & Cloud-Native Development

I am a developer with a focus on building **production-grade, containerized applications** using the **Angular + Spring Boot** stack. I specialize in **"Shift-Left Security,"** ensuring that every line of code—from the UI component to the cloud infrastructure—is secure, scalable, and audit-ready by design. I don't just build features; I architect resilient systems that handle massive datasets and complex business logic without compromising performance.

Enterprise Core Competencies:

- **Resilient Backend Development:** Specialist in **Spring Boot** microservices, implementing **distributed tracing (correlation IDs)** and **Resilience4j circuit breakers** to prevent cascading failures. I ensure data integrity through **idempotency keys**, strict **DTO validation**, and optimized **JPA batch operations** for high-volume transactions.
- **Scalable Frontend Architecture:** Expert in **Angular component design**, utilizing **OnPush change detection** and **RxJS state normalization** to maintain high performance in data-heavy SPAs. I prioritize **accessibility (a11y)** and implement advanced security like **CSP headers** and **silent JWT rotation** as standard practice.
- **Automated DevSecOps & Cloud:** I manage the full deployment lifecycle using **hardened Docker builds** (multi-stage, non-root users) and **Ansible** for infrastructure as code. I build **CI/CD pipelines** that automate security scanning (**SAST, DAST, SCA**) and secret detection to catch vulnerabilities before they reach production.
- **Observability & Compliance:** Proactive in system health monitoring using the **"Three Pillars"**—**metrics**, **centralized logging**, and **distributed tracing**. Experienced in handling **GDPR/PII compliance** through automated log redaction and column-level database encryption

[Offizielle Namensänderung nach deutscher Einbürgerung zur weiteren Integration (2026): Shakil Jansberg, zuvor bekannt als Shakil Ahmad.]

PROFESSIONAL EXPERIENCE

Independent Software Engineer — Structured Full-Stack & QA Engineering Upskilling | Sep 2025 – Dec 2025
https://www.pdfchatten.com/ | Vercel: https://chatpdf-shaki.vercel.app/

- Undertook a structured, hands-on upskilling phase to strengthen modern full-stack development and quality engineering skills.
- Completed end-to-end development and deployment of a full-stack, AI-powered Software-as-a-Service (SaaS) application. The platform enables users to interact conversationally with their PDF documents, leveraging advanced **Retrieval-Augmented Generation (RAG)** to provide accurate, context-aware answers sourced directly from the user-uploaded documents, eliminating AI hallucinations.

Technical Implementation & Key Responsibilities

- **Full-Stack System Architecture**
  - Architected a scalable, full-stack system using a modern tech stack including **Next.js 13+ (App Router)** with **TypeScript** for the frontend and API layer, **Tailwind CSS** and **shadcn/ui** for the responsive UI, and **Clerk** for secure authentication.
- **Data & AI Pipeline Engineering**
  - Engineered a robust data and AI pipeline by integrating **Neon (Serverless PostgreSQL)** with **Drizzle ORM** for type-safe database operations and **AWS S3** for secure, scalable file storage.
  - Designed and implemented the core AI functionality using the **OpenAI API** and **LangChain** framework. Developed a custom RAG system where PDFs are processed, chunked, and their embeddings stored in **Pinecone** (vector database), enabling the AI to retrieve relevant document context for each user query.
- **Real-Time User Experience**
  - Integrated real-time, streaming chat interfaces using the **Vercel AI SDK**, delivering a seamless, ChatGPT-like user experience where AI responses are streamed directly to the client.
- **Monetization & Business Logic**
  - Implemented monetization and subscription management by integrating the **Stripe API**, including checkout flows, webhooks for payment event handling, and a customer portal, enabling recurring revenue.
- **Deployment & DevOps**
  - Established a full CI/CD pipeline by connecting the GitHub repository to **Vercel**, enabling automatic builds and deployments on every push to the main branch, ensuring rapid and reliable iteration.

Key Technologies

- **Next.js:** Served as the full-stack React framework for server-rendered frontend and API routes, chosen for performance and seamless Vercel integration.
- **TypeScript:** Ensured type safety and improved maintainability throughout the complex codebase.
- **OpenAI API:** Powered core AI functionality for generating chat responses and creating text embeddings.
- **LangChain:** Orchestrated the document processing pipeline to load and split PDFs into chunks.
- **Pinecone:** Acted as the vector database for high-speed similarity search on document embeddings.
- **Stripe:** Handled all subscription billing and payment processing for the "Pro" tier.
- **AWS S3:** Utilized for secure and scalable cloud storage of user-uploaded PDF files.

- **Neon (PostgreSQL):** Provided the serverless, scalable relational database for application data.
- **Drizzle ORM:** Used as a TypeScript-first ORM for type-safe and efficient database interactions.
- **Tailwind CSS:** Enabled rapid development of a custom, responsive UI with a utility-first approach.
- **Clerk:** Implemented for secure and streamlined user authentication and session management.
- **Vercel AI SDK:** Simplified the implementation of the real-time, streaming chat interface.
- **Vercel:** Chosen as the deployment platform for its global edge network and native CI/CD.

Software Developer / Systems Engineer | ATOSS CSD Software GmbH | Feb 2025 – Sept 2025

Ensured the stability and modernization of a mission-critical workforce management platform, working across backend systems, integrations, and DevOps pipelines.

Core Technologies: Java 8/11, Spring Boot, Eclipse RCP, SOAP/REST APIs, PostgreSQL, GitLab CI/CD, Docker, JUnit, SonarQube

Key Contributions:

- **Systems Stability:** Maintained and improved a large-scale Java application in production, resolving incidents and implementing durable fixes.
- **Critical Integrations:** Built and operated Java integrations with ATOSS Time Control, ensuring reliable data flow via SOAP web services.
- **CI/CD & Automation:** Designed GitLab CI/CD pipelines, introduced Docker-based builds, and integrated automated testing and SonarQube quality gates.
- **Modernization:** Supported the transition from monolith to services, prototyping Spring Boot REST APIs for improved scalability.
- **Developer Efficiency:** Created internal Eclipse plugins to automate workflows and enforce standards.
- **Impact:** Strengthened production reliability, deployment safety, and operational foundations in a strict enterprise environment.

Software Developer & Support Engineer | Martin Care GmbH | March 2023 – January 2025

Drove full-stack development and system optimization for healthcare software solutions, bridging backend APIs, web/mobile applications, and DevOps. Translated deep technical insights from support into robust engineering improvements, enhancing performance, scalability, and deployment reliability.

Key Contributions & Impact:

- **Engineered Scalable Backend Systems:** Developed and optimized secure **RESTful APIs** using **Java/Spring Boot**, integrating **Hibernate** and **Ehcache** to enhance performance and reduce database load. Designed efficient **PostgreSQL** schemas to support complex data workflows.
- **Delivered Integrated Full-Stack Features:** Built responsive web interfaces with **Angular** and **Angular Material** for internal tools. Extended platform functionality by developing companion mobile applications with **Flutter**, implementing **BLE communication** and local data persistence.

- **Architected & Modernized Deployment Pipelines:** Improved system resilience and deployment speed by designing and implementing a **microservices architecture**. Automated build, test, and deployment processes using **Docker**, **Jenkins**, and **Ansible**, establishing a reliable CI/CD foundation.
- **Solved Critical Integration & Support Challenges:** Integrated real-time **RFID/BLE asset tracking** via custom APIs, enabling seamless data flow between legacy and modern systems. Leveraged support insights to proactively improve data synchronization, reduce latency, and optimize system-wide performance.
- **Championed Quality & Collaboration:** Elevated code quality through rigorous peer reviews and the development of comprehensive test cases. Actively contributed to Agile workflows, ensuring consistent delivery of stable software across multiple product versions.

Software Developer & Support Engineer | dotSource GmbH | April 2021 – February 2023

Developed and maintained high-performance, full-stack features for Fujifilm's eCommerce platform using Java, Spring Boot, and Angular. Ensured system reliability and rapid delivery by implementing robust CI/CD pipelines and providing expert-level technical support.

Key Contributions & Impact:

- **Engineered Scalable Backend Services:** Designed and developed high-performance **RESTful APIs** with **Java 11/17** and **Spring Boot**, secured with **JWT-based Spring Security**.
- Enhanced functionality and reduced latency by integrating **Hibernate**, **Ehcache**, and optimizing communication with **PostgreSQL** and **MySQL** databases.
- **Delivered Modern Frontend User Experiences:** Built responsive and dynamic user interfaces for the Fujifilm platform using **Angular 13+**, **Angular Material**, and **RxJS**. Ensured seamless navigation and efficient data flow with **Angular Router** and **HttpClient**.
- **Modernized DevOps and Deployment Pipelines:** Automated the software delivery lifecycle by **containerizing applications with Docker** and orchestrating end-to-end **CI/CD pipelines** using **Jenkins** and **Ansible**, significantly reducing manual effort and accelerating release cycles.
- **Championed System Reliability and Code Quality:** Ensured robustness through comprehensive testing strategies using **JUnit**, **Mockito**, and **Postman**.
- Provided **Level 2/3 support** by diagnosing production issues, implementing hotfixes, and performing root-cause analysis to minimize downtime and improve client trust.

Full Stack Software and Web Developer | EQS Group AG | June 2017 – April 2021

Engineered and evolved full-stack web applications from a Perl foundation to modern Java/Spring Boot and Angular systems. Drove platform modernization by establishing automated CI/CD pipelines and championing quality-first development practices.

Key Contributions & Impact:

- **Built & Modernized Scalable Applications:** Spearheaded development using **Perl (Mojolicious)** and later **Java 11/17, Spring Boot, and Angular 13+**, optimizing **MySQL/PostgreSQL** databases for performance and reliability.

- **Engineered Secure & High-Performance APIs:** Developed **RESTful APIs** with **Spring Boot (JWT Security)** and **Perl**, integrating third-party services. Enhanced backend efficiency using **Hibernate ORM** and **Ehcache** caching.
- **Developed Engaging User Interfaces:** Created responsive, dynamic frontends with **Angular (Material, RxJS)** and core **JavaScript/jQuery/CSS** for seamless cross-platform user experiences.
- **Automated DevOps & Deployment:** Accelerated release cycles by **containerizing apps with Docker** and implementing **CI/CD pipelines with Jenkins/Ansible** for automated testing and deployment.
- **Championed Code Quality & Reliability:** Established **TDD** practices, rigorous testing with **JUnit/Mockito/Postman**, and **Git**-based collaboration to ensure system resilience and operational excellence.

CAREER PROGRESSION (PRE-2017)

Senior Software Support Engineer | Xchanging Solutions, Singapore | 2011 – 2016

- Spearheaded full-stack development and DevOps for client solutions in the financial and public sectors.
- Architected and developed enterprise applications using **Java, Spring Framework, and Hibernate**, with **Oracle/MySQL** databases and RESTful APIs.
- Established early **CI/CD pipelines** using **Jenkins, Ansible, and Maven** to automate build, test, and deployment processes.
- Enhanced system security and reliability through **SAST/DAST testing (HP Fortify)** and rigorous **Agile/Scrum** project management.

Earlier Roles in Software Development | 2008 – 2011

- Built a foundation in full-stack development and client-focused support with technologies including **Java, Java Servlets (JSP), Spring MVC, and Hibernate**, alongside **Oracle/MySQL** databases.
- Developed desktop and web applications for print management, usability testing, and parental control software, integrating **SOAP-based web services** and **JasperReports** for reporting.
- Gained early experience in **multi-tier application architecture**, **database design**, and **end-user training and support** in business and consumer software environments.

EDUCATION

Master of Science in Computer Science (MSCS)
University of the Punjab (PUCIT), Lahore
Relevant Coursework: Software Engineering, Database Systems, Artificial Intelligence, Object-Oriented Programming, Project Management, Data Communication & Networks, OO Analysis & Design

Bachelor of Science in Computer Science (BSCS)
University of the Punjab (PUCIT), Lahore
Relevant Coursework: Software Analysis & Design, Operating Systems, Data Structures & Algorithms, Database Management Systems, Computer Architecture, Theory of Automata

CERTIFICATIONS

Professional Certifications

- Oracle Certified Professional: Java SE 17 Developer
- AWS Certified Solutions Architect – Associate
- AWS Certified Cloud Practitioner
- Salesforce Certified Developer I & II

Linux Foundation – Technical Training Portfolio

- Programming & Development: Node.js, Linux Kernel Dev, OpenAPI
- Cloud & Infrastructure: Cloud Infrastructure, GitOps, Kubernetes, Serverless
- DevOps & CI/CD: Jenkins, DevOps & SRE, DevSecOps
- Cybersecurity: OWASP Top 10, XSS, Cybersecurity Essentials, Zero Trust
  Foundational Systems: Linux, Common Domain Model (CDM)