

KANCHAN SHAW

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JAVA SOFTWARE DEVELOPER

Results-driven software engineer with 9 years of experience in the complete Software Development Lifecycle across diverse domains such as Automobile, Airlines, Healthcare, and Banking. Proven expertise in designing and developing scalable web applications using Java, Spring Boot, Microservices, and cloud platforms like AWS and GCP. Skilled in middleware development, system integration, and leading digital transformation initiatives. Adept in Agile methodology, TDD/BDD, and a wide range of modern DevOps and analytics tools. Strong team leader with a vision for innovation and continuous improvement.

- Continuous Integration & Deployment (CI/CD) • Cryptography • Scalable Architecture • Data Analytics
- Efficiency Improvement • Multithreading • Test-Driven Development • DevOps • Cloud platforms
- Behavior Driven Development • Caching Technologies • Middleware & Integration

Languages: Java, Scala

Web: JavaScript, HTML, CSS, Ajax

Web Services: Rest API, SOAP, API Gateway, OAuth 2.0

Web/App Servers: Apache, Tomcat, Nginx

Frameworks: Spring Boot, Microservice, JSF, Spring Security, Hibernate, JPA, Angular.js

Databases: Oracle, MySQL, PostgreSQL, Redis, MongoDB, Gemfire

Design Patterns: Singleton, Builder, factory, Proxy, Saga, CircuitBreaker, API Gateway

SDLC: Agile

Tools: Maven, Gradle, Eclipse, Postman, STS, IntelliJ, Kibana, Grafana, Appdynamics, Git, Docker, Kubernetes, RabbitMQ, Kafka, ActiveMQ, GitHub Actions, Jenkins, Git, GitLab, Mockito, WireMock

Platforms: Windows, MacOS, AWS

Application/Software: Workday

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

DIGICERT, Bangalore, India • 01/2024 – 07/2024

A digital security company headquartered in Lehi, Utah. DigiCert provides public key infrastructure (PKI) and validation required for issuing digital certificates or TLS/SSL certificates, acting as a certificate authority (CA) and trusted third party.

Senior Software Engineer

- Developed secure and scalable RESTful APIs for Trust Lifecycle Management project using J2EE to streamline certificate operations and maintain high system availability.
- Designed and implemented high and low level system architecture in collaboration with product and DevOps teams using industry best practices to ensure scalability and performance.
- Collaborated on functionality enabling dynamic certificate activation based on regional or enterprise-specific policies to support global security compliance.
- Led and reviewed core module code contributed by junior developers to ensure code quality, adherence to design patterns, and maintainability standards.

Technologies Used: Java, Spring, Hibernate, MariaDB, Docker, Kubernetes.

VMWARE PVT. LTD, Bangalore, India • 11/2019 – 12/2023

VMware LLC is an American cloud computing and virtualization technology company.

Senior Software Engineer

- Led the migration of microservices for VMware internal tools Customer Connect from PCF to TKG using Tanzu Kubernetes and Spring Boot to achieve 100% service uptime and enable multi-cloud deployment.
- Delivered end-to-end software lifecycle support for enterprise-grade tools using Agile practices and DevOps pipelines to ensure consistent quality and functionality.
- Ensured adherence to company coding standards in application development using SonarQube and Maven to maintain high code quality and reduce technical debt.

- Conducted code reviews, performed unit/system testing, and managed CI/CD deployments using Jenkins and GitLab to ensure seamless production readiness and minimize downtime.
- Enhanced performance of core services in the Changepoint platform using caching mechanisms (Redis, Gemfire) to reduce load times by over 25%.
- Streamlined logging and monitoring of applications using AppDynamics, Pingdom, and Grafana to achieve faster root cause analysis and better system observability.

Technologies Used: Java, Microservice, Docker, Kubernetes, Pivotal Cloud Foundry, AWS, Spring Security, Wavefront, AppDynamic, MySQL, OracleDB.

MERCEDES- BENZ RESEARCH & DEVELOPMENT (DAIMLER GROUP), Bangalore, India • 05/2017 – 11/2019

The largest research and development center for Mercedes-Benz Group AG outside of Germany.

Senior Software Engineer

- Designed, developed, and deployed backend microservices for the Mercedes Me app using Java (J2EE), GoLang, and PCF to support seamless mobility services across iOS and Android platforms.
- Built RESTful web services for the global feature activation system in the Mercedes Me platform using Spring Boot, Redis, Gemfire, and MySQL to enable real-time control of user features worldwide.
- Performed regular load and performance testing for the Mercedes Me backend using Gatling to validate functional availability and system reliability across key user journeys.
- Configured end-to-end application dashboards for the Mercedes Me system using D3.js, Grafana, Kibana, Pingdom, and Wavefront to enhance observability and accelerate diagnostics.
- Conducted root cause analysis at the node level in the Mercedes Me app using AppDynamics to identify bottlenecks and reduce incident resolution time by 40%.
- Improved infrastructure monitoring and operational insights in Mercedes Me by implementing alerting and visualization tools, leading to faster issue detection and reduced downtime.

Technologies Used: Java, Microservice, Scala, Pivotal Cloud Foundry, AWS, Spring Security, Wavefront, AppDynamic, MySQL, Redis Cache.

HEWLETT-PACKARD, Bangalore, India • 10/2015 – 04/2017

An American multinational information technology company headquartered in Palo Alto, California.

Software Engineer

- Developed robust and scalable RESTful APIs for mobility services using J2EE architecture to ensure compliance with functional and non-functional requirements.
- Implemented web services and integrated them with Pivotal Cloud Foundry, Gemfire, Redis, and MySQL to deliver seamless deployment, caching, and data management.
- Utilized Go Lang to build high-performance components of the mobility system to improve scalability and support increased user traffic.
- Developed country-specific airline activation logic using conditional programming and configuration-based design to deliver regionally tailored user experiences.
- Optimized system performance by integrating Redis and Gemfire caching solutions to reduce latency and improve application response time by over 30%.

Technologies Used: Java, Spring Boot, Microservice, OracleDB.

ACADEMIC PROJECTS

Maharishi International University (2025)

Flight Booking: Developed a web-based flight booking system with dynamic pricing, multi-airline integration, and real-time booking. Built RESTful APIs using Java and microservices, contributed to scalable architecture, and optimized performance with Redis and Gemfire on Pivotal Cloud Foundry. Tech stack: Java, J2EE, Spring, JPA, React JS, HTML.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Software Engineer, Cloud Computing, Algorithms, Web Application Programming

Bachelor of Computer Application

CMC Institute, West Bengal, India (12/2010)