

Software Engineer with 2+ years of experience in designing and developing scalable, cloud-native applications using Java, Spring Boot, and microservices architecture. I'm driven to leverage my expertise in Backend development, DevOps automation, and full-stack solutions to drive product innovation. I specialize in independently completing complex software development projects from architecture design to deployment, ensuring high-quality and timely delivery of solutions at scale.

SKILLS

Languages & Frameworks	Java, Python, JavaScript, TypeScript, Data Structures, Algorithms, OOPS, Multithreading, Concurrency, Spring Boot, Spring Cloud, Spring Security, Hibernate, JPA, Django, Maven, Gradle, REST API, GraphQL, Microservices, WebSocket, Socket.IO, React.js, Next.js, Node.js
Databases & Technologies	PostgreSQL, MySQL, MongoDB, NoSQL, Elasticsearch, Redis, Kafka, Pub/Sub, OLAP (Apache Druid), Database Design, Query Optimization, Data Modeling, ETL Pipelines
Cloud & DevOps	AWS (EC2, VPC, S3, EKS, ECS, RDS, Lambda and etc.), Docker, Kubernetes, Terraform, Jenkins, CI/CD, Git, GitHub, Bitbucket, Infrastructure as Code, Container Orchestration, Auto-scaling, Load Balancing
Methodologies	System Design, Distributed Systems, Agile/Scrum, Test-Driven Development (TDD), API Design, Design Patterns, Code Review, Performance Optimization, Monitoring & Logging

TECHNICAL EXPERIENCE

Software Development Engineer <i>Palmonas</i>	10/2025 — Present <i>Pune, India</i>
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- Building in-house enterprise tools to replace third-party software across all departments, developing AI/ML-powered image search platform with image upload and vector database search capabilities, migrating entire Shopify infrastructure to custom in-house solution, and building custom products to improve efficiency and organizational control.
- Gained expertise in AI/ML development with computer vision models, scalable microservices architecture, full-stack development, and cloud-native solutions, collaborating with cross-functional teams to drive digital transformation and enhance system reliability while maintaining high code quality standards.
- Implemented AI/ML pipeline using Qdrant for vector similarity search and YOLO for object detection, developed scalable microservices using Java/SpringBoot, Go, Django, Flask, and FastAPI, built full-stack internal web and mobile applications with Next.js and React Native, and architected cloud-native solutions with containerization, and API-first design for smooth scalability.
- Utilized Python (Django, Flask, FastAPI), Java, Go, Next.js, React Native, Qdrant, YOLO, PostgreSQL, AWS S3, Containerization, CI/CD, REST APIs, Microservices, and cloud-native technologies for building scalable, efficient, and self-reliant enterprise solutions.

Software Engineer <i>Riverhead Software</i>	07/2025 — 10/2025 <i>Gurugram, India</i>
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- Architected and designed comprehensive microservices ecosystem from scratch supporting 1M+ active users with 99.9% uptime, featuring real-time notifications, content feeds, user behavior analytics, personalized recommendations, and advanced search functionality with high-performance caching.
- Gained expertise in large-scale microservices architecture and distributed systems, implementing real-time analytics and search optimization, resulting in 60% latency reduction, 40% user engagement improvement, 70% search performance enhancement, and 80% database load reduction with API response times under 100ms.
- Implemented distributed messaging using Apache Kafka for real-time notifications and content feeds, designed OLAP analytics system with Apache Druid for user behavior tracking, optimized search with Elasticsearch and recommendation algorithms, and built high-performance caching layer with Redis and Pub/Sub mechanisms.
- Utilized Spring Boot, Spring Cloud, Apache Kafka, Apache Druid, Elasticsearch, Redis, Pub/Sub, Microservices, REST APIs, and distributed systems for building scalable, high-performance platform with real-time capabilities and advanced analytics.

Software Development Engineer Intern <i>Solvei8</i>	05/2025 — 07/2025 <i>Remote, India</i>
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- Developed and enhanced backend services for large-scale distributed microservices platform, delivering new features and improvements aligned with evolving business requirements, ensuring high-priority feature delivery and defect resolutions through agile product backlog management.
- Gained expertise in multi-language backend development and microservices architecture, collaborating with product managers and cross-functional teams across multiple geographies, resulting in improved system performance, scalability, and seamless feature integration for global operations.
- Implemented real-time communication and data processing pipelines, optimized large-scale distributed microservices architecture for enhanced backend performance and scalability, and ensured seamless feature integration and system interoperability.
- Utilized Spring Boot, Scala, Play Framework, Microservices, REST APIs, and distributed systems technologies for building scalable, high-performance backend services with improved responsiveness and reduced operational delays by 25%.

Software Development Intern

GoNeutral

02/2025 — 05/2025

Gurugram, India

- Developed comprehensive financial management software for Climosphere enabling complete asset management, document management, and financial transaction tracking, featuring automated PDF generation, invoice and bill generation, GST integration, and direct integration with various government platforms for streamlined compliance and reporting.
- Gained expertise in full-stack development building both frontend and backend systems, implementing complex financial workflows and government platform integrations, resulting in a robust enterprise financial management solution with automated compliance features and seamless document processing.
- Implemented multi-framework backend architecture using Django, Flask, and FastAPI for different service modules, built responsive frontend with Next.js and React.js, and integrated automated PDF generation, invoice creation, and GST compliance workflows ensuring accurate financial reporting and regulatory adherence.
- Utilized Django, Flask, FastAPI, Next.js, React.js, AWS EC2, Lambda, S3, Load Balancer, VPC, Cloudflare, CloudFront, and PostgreSQL for building scalable, secure, and compliant financial management platform with high availability and performance optimization.

Software Development Intern

Indroyd Labs

10/2024 — 02/2025

Pune, India

- Developed comprehensive event booking software enabling end-to-end event management from booking to admin access, featuring role-based authentication, staff and worker management, food quantity tracking, and company offer management with complex approval pipeline workflows.
- Gained expertise in reactive programming paradigms and microservices architecture, implementing secure authentication systems with session management and refresh tokens, resulting in scalable and maintainable enterprise-grade application.
- Implemented microservices architecture with event-driven communication, multi-database synchronization using PostgreSQL and MySQL, Redis caching for performance optimization, and complex approval pipeline workflows ensuring data consistency.
- Utilized Spring Boot, Spring Cloud, Spring Security, WebFlux, Mono, PostgreSQL, MySQL, Redis, AWS EC2, VPC, and Docker for building reactive, scalable, and secure microservices-based event management platform.

PROJECTS

Multi-Provider Payment Gateway System

12/2024

Technologies: Java, Spring Boot, Spring Framework, Spring Cloud, JDBC, PostgreSQL, Apache Kafka, Redis, API Gateway, REST API, Microservices, AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes

AWS

- Built unified payment gateway supporting Stripe, Reserve Pay, and PayPal to enable cross-border transactions and eliminate multiple provider integrations for merchants.
- Architected microservices with event-driven communication using Kafka, Redis caching, and API Gateway for routing and security.
- Implemented payment lifecycle features including initiation, checkout, refunds, automated receipts, email notifications, and real-time dashboard analytics.
- Deployed production-ready system on AWS enabling global payment acceptance through single unified API.

Self-Hosted Custom Domain Mail Server

01/2025

Technologies: Spring Boot, SMTP, IMAP, POP3, PostgreSQL, Redis, Docker, Kubernetes, AWS (EC2, S3, RDS), REST API, Message Queue, DNS Management, Security Protocols

AWS

- Developed self-hosted mail server enabling custom domain emails without expensive third-party plans, providing full infrastructure.
- Implemented SMTP, IMAP, and POP3 protocols with Spring Boot for message queuing, routing, and protocol handling.
- Built architecture using Spring Boot, PostgreSQL, Redis, Docker, and AWS with security configurations for deployment.
- Created production-grade email alternative with secure authentication, spam filtering, and storage management.

EDUCATION

Bachelor of Computer Science, Sage University - Bhopal, India

2022 — 2025

Cloud Computing Specialization

CGPA: 9.30/10.0

Relevant Coursework: Advanced Algorithms, Distributed Systems, Cloud Architecture, Software Engineering

Higher Secondary Education, Jawahar Navodaya Vidyalaya - Harda, India

2015 — 2022

Percentage: 74.8/100

Focus: Computer Science

ACTIVITIES

Winner - ACEHACK Hackathon (UEM), 1st Prize for innovative AI solution

2024

IEEE Conference Best Software Project, Winner for microservices architecture

2024

National-Level Coding Competition, 2nd Place

2024

President - Coding Club, Lead organizer for technical events and workshops

2023 — 2024

Technical Speaker - Cloud Computing Workshop, Sage University

2024

Open Source Contributor - Contributed to multiple Spring Boot and Kubernetes projects

2023 — Present