

ADARSH BP

Senior Full Stack Engineer | Java, Spring Boot, Angular/React, Go, Cloud, DevOps, AI

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 7+ years of experience building and running enterprise-grade, cloud-native products for the automotive and banking domains, including onsite delivery in Germany. Takes products from requirement to release: shapes the API and data model with stakeholders, builds the backend services and user interfaces, and ships them to production through automated, containerised pipelines. Known for turning ambiguous business problems into reliable systems and for using agentic AI to automate the engineering work that slows teams down. Impact to date: 30% fewer code quality issues, 25% better resource utilization and 99% production uptime across critical services.

TECHNICAL SKILLS

- **Programming Languages:** Java, Go (Golang), Python, TypeScript, JavaScript (ES6+), SQL, Shell scripting
- **Backend & APIs:** Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Spring Cloud, Hibernate, RESTful APIs, GraphQL, Microservices architecture, Event-driven architecture, Apache Kafka, WebSockets, gRPC-style service integration, Multithreading & Concurrency
- **Frontend:** Angular, React, TypeScript, RxJS, Node.js, HTML5, CSS3, SCSS, Tailwind CSS, Bootstrap, Vite, Webpack, WebRTC, Web Components, Micro-frontends, Responsive Design, Jest/Karma
- **Databases & Caching:** PostgreSQL, MySQL, Oracle, MongoDB, Firebase, Redis, KeyDB, OpenSearch, Elasticsearch, Query optimization, Data modelling, Flyway/Liquibase migrations
- **Cloud:** AWS, Oracle Cloud, Microsoft Azure (Azure OpenAI), Google Cloud (Gemini API), Vercel, Netlify, Heroku
- **DevOps & Platform:** Docker, Kubernetes (EKS), Helm, ArgoCD, GitOps, Jenkins, GitHub Actions, GitLab CI, CI/CD pipeline design, Terraform, Infrastructure as Code (IaC), Nginx, Linux, Git, Maven, Gradle, npm
- **Security & DevSecOps:** SAST, SCA, DAST, SonarQube, Black Duck, OWASP, Secure coding, OAuth 2.0, OpenID Connect, JWT, SSO, Secrets management, Dependency & vulnerability remediation
- **Applied AI & GenAI:** Azure OpenAI (GPT models), Google Gemini, Hugging Face, LangChain-style orchestration, Agentic AI workflows, MCP (Model Context Protocol) tool servers, RAG, Vector embeddings, Prompt engineering, LLM evaluation & guardrails, AI-assisted code remediation
- **Observability & Analytics:** Datadog, OpenTelemetry, Grafana, Prometheus-style metrics, ELK Stack, Instana, Apache Superset, Google Analytics, Distributed tracing, Log aggregation, Alerting, SLI/SLO
- **Testing & Automation:** JUnit, Mockito, Integration testing, Test-Driven Development (TDD), Playwright, Selenium/Sauce Labs, UFT, API testing (Postman), RPA (Automation Anywhere), Performance testing
- **Architecture & Practices:** System Design, Distributed Systems, Domain-Driven Design, Design Patterns, SOLID, Scalability & Performance Tuning, High Availability, Code Review, Technical Documentation, Agile/Scrum, Scrum Master, SAFe (Scaled Agile Framework), PI Planning, Kanban, Jira, Confluence, Stakeholder Management, Mentoring

PROFESSIONAL EXPERIENCE

Senior Software Developer | Mercedes-Benz Research and Development India

Bangalore, India (with onsite delivery in Germany) | Sep 2021 - Present

- Deliver multiple cloud-native full stack products for Mercedes-Benz workshops and engineering teams worldwide - from vehicle operation data platforms to internal developer tooling - owning them from design through release with Java/Spring Boot, Go, Python, Node.js, Angular/React and SQL/NoSQL data stores on AWS EKS.
- Serve also as Scrum Master for the team in a SAFe setup - facilitating ceremonies, PI planning and backlog refinement, tracking sprint metrics and clearing impediments to keep delivery predictable.
- Built CodeFix AI, a Generative AI service (Azure OpenAI + LLMs) that automatically remediates static analysis findings inside CI/CD pipelines, reducing code quality issues by 30% and removing manual remediation effort for multiple product teams.
- Building Ops Agent, an autonomous incident-response agent that correlates alerts, metrics, traces and logs (Datadog/OpenTelemetry) with cloud configuration and Git history through MCP tool servers, then generates the root-cause summary, a remediation pull request and the incident report under human-in-the-loop approval, cutting manual triage effort.
- Architected and scaled microservices on Kubernetes, tuning workloads and resource profiles to improve resource utilization by 25% while sustaining high availability under production load.
- Redesigned authoring, auditing and publication workflows for vehicle operation data, improving data reliability and shortening content release turnaround.

- Hardened release quality by automating regression and smoke suites with Playwright and TypeScript and wiring live reporting into GitHub Actions, plus DevSecOps gates (SAST/SCA) in the pipeline.
- Work directly with product owners, architects and business users in Germany and India to turn requirements into shipped features, and mentor junior engineers on backend, frontend and secure coding practices.

Software Developer | Attra Infotech Pvt Ltd

Bangalore, India | Jun 2019 - Sep 2021

- Developed full stack, microservices-based web applications for payments and banking clients, covering data processing, visualization and rendering across distributed services.
- Delivered 20+ feature releases with backend, frontend and QA teams, reducing deployment defects by 40% and improving release efficiency by 35% through CI/CD and review discipline.
- Implemented an ISO 8583 card switch simulator with monitoring and automated pipelines, improving transaction validation speed by 15%.
- Led critical platform and dependency upgrades, maintaining 99% uptime and lowering operational cost by 10% through resource optimization.

Engineering Intern | Banashree Systems / KnowX Innovations

Karnataka, India | Jan 2018 - Aug 2018

- Built backend services, microcontroller programming and communication protocol handling for VLSI hardware integration and an IoT smart car parking system.

KEY PROJECTS

- **Web-Interio - AI Floor Plan to 3D Visualization (web-interio.in)** - Built and shipped a production SaaS that converts 2D floor plans into 3D isometric interiors and photorealistic exterior renders in seconds using Google Gemini multimodal image generation, with iterative prompt-based editing; React + Vite frontend, REST API backend, Google OAuth sign-in, Razorpay payments and GA4 analytics.
- **DropBeam - Peer-to-Peer File Transfer (dropbeam.netlify.app)** - Serverless P2P file sharing web app using WebRTC data channels via PeerJS, with chunked transfers plus ACKs, concurrency-controlled 'Send All' scheduling, live progress, QR-code peer pairing and configurable STUN/TURN servers; built with JavaScript, Vite and Tailwind CSS.
- **Ops Agent - Autonomous Incident Response (Mercedes-Benz)** - Agentic SRE assistant for production incident management: ingests alerts and observability data (Datadog/OpenTelemetry), inspects AWS configuration and Git history through MCP tool servers, localises the offending change and generates the RCA summary, remediation pull request and incident report; tailored to internal runbooks, service ownership and change-approval policy.
- **XENTRY Operation Time (Mercedes-Benz)** - Full stack platform for FIN/VIN-based search of vehicle operation items and times, with authoring, auditing and publication workflows (Spring Boot, Go, Angular, Kubernetes).
- **CodeFix AI (Mercedes-Benz)** - GenAI service that analyses static analysis findings and generates validated code fixes inside CI/CD pipelines (Azure OpenAI, LLMs).
- **CARE IT (Mercedes-Benz, Patented)** - Platform that measures and optimizes application carbon emissions across backend services, VMs, ECUs and data centres, with analytics and offset/cost recommendations.

EDUCATION

Bachelor of Engineering, Electronics and Communication Engineering

Jawaharlal Nehru National College of Engineering (VTU), Shivamogga, India | 2015 - 2019

CGPA 8.2/10. Awarded Best Outgoing Student (ECE). Completed 25+ projects including government-funded initiatives; 30+ inter-college competition awards; NSS volunteer.

ADDITIONAL INFORMATION

- Recognition: Multiple internal innovation awards at Mercedes-Benz R&D India for contributions to a patented carbon emission optimization solution and GenAI-based developer tooling.
- International Experience: Delivered projects onsite in Germany, collaborating directly with distributed business and engineering stakeholders.
- Beyond Work: Competitive programming, chess and pickleball; volunteered through the COVID-19 pandemic to source and distribute oxygen and essential medicines.