Deepak Bharadwaj

STAFF SOFTWARE ENGINEER | BACKEND & DISTRIBUTED SYSTEMS

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Bangalore, India | Open to Remote

PROFESSIONAL SUMMARY

Staff Software Engineer with approximately 9 years building backend and distributed systems, including multi-tenant B2B SaaS on AWS EKS supporting **500K+ daily transactions at 99.9% availability**. Designs event-driven microservices with Node.js, TypeScript, NestJS, Apache Kafka, PostgreSQL, and Redis; takes end-to-end ownership of CI/CD, observability, and incident response; leads architecture and design reviews; and partners cross-functionally with product, QA, and DevOps while mentoring **10+ engineers**. Recent work includes LLM-powered features, AI agent integrations with MCP and tool calling, and AI-assisted development that took a greenfield system to production in **3 months**.

CORE COMPETENCIES

Distributed Systems | Backend Architecture & System Design | Event-Driven Microservices | Apache Kafka & Streaming | PostgreSQL & Redis Performance | Kubernetes & AWS (EKS) | CI/CD & GitOps | Observability & Incident Response | Architecture & Design Reviews | LLM & AI Agent Integration | Technical Leadership & Mentoring

WORK EXPERIENCE

Elocity

Jan 2023 - Present

Staff Software Engineer

Bangalore

- Architected and delivered scalable backend microservices with NestJS, TypeScript, PostgreSQL, and Kafka for high-throughput charging and payment state machines.
- Led product strategy and architecture for EVLM (EV Load Management), a greenfield utility-focused demand-response product reusing mature CPMS services.
- Led EVLM from concept to production in **3 months** using AI-assisted development with Claude and Cursor.
- Built AI agent integrations using MCP (Model Context Protocol) servers and LLM tool-calling workflows.
- Drove AI product strategy across intelligent assistants, conversational analytics, and natural-language insights using large language models (LLMs) and enterprise platform data.
- Shipped mission-critical platform modules including payments, billing engines, tariffs, fleet management, and Account Management Service (AMS) identity federation.
- Partnered with engineering, QA, DevOps, and customer success teams to revamp monitoring, alerting, and incident response, substantially reducing resolution times.
- Mentored **10+ engineers**, instituted architectural governance, and established peer review and reliability standards across squads.

Elocity

Jan 2022 - Jan 2023

Senior Software Engineer

Bangalore

- Architected horizontally scalable Kubernetes deployments on AWS EKS handling **500K+ daily transactions** while sustaining **99.9% availability**.
- Delivered scalable backend microservices with NestJS, TypeScript, PostgreSQL, Elasticsearch, and Kafka for a high-throughput EV charging platform.
- Engineered resilient event-driven pipelines using Kafka to process asynchronous charging sessions, telemetry, and payment state machines.
- Optimized Redis caching layers, query plans, and database indexing across high-traffic endpoints, reducing average latency and improving throughput.

- Spearheaded development of core backend modules including authentication, role-based access control (RBAC), and subscription billing.
- Built and maintained CI/CD pipelines and GitOps deployments with GitLab, Helm, and Argo CD across multiple environments.
- Instrumented observability, monitoring, and alerting for production services using Sentry and OpenSearch.

SAP Labs

Aug 2018 - Jan 2022

Software Developer

Bangalore

- Implemented concurrency control mechanisms and multilingual support, boosting SAP PM module system performance by **5x**.
- Delivered production hotfixes, root-cause analyses, and ongoing support for Multi Bank Connectivity Connector, ensuring stability across **115+ connected banks**.
- Built and optimized enterprise SaaS applications for global insurance and banking clients using JavaScript, Node.js, SQL, and modern web technologies.
- Collaborated across four customer-facing implementations, including onsite client delivery with a Belgium-based credit insurance enterprise (Credendo).

SAP Labs

Jan 2018 - Jul 2018

I-XP Intern

Bangalore

- Developed a Python email listener adapter to support automated round-trip email workflows.

PiRuby

Dec 2016 - Dec 2017

Data Scientist

Bangalore

- Built GUI batch automation for large-scale web scraping, processing **5GB** of text data and **1M metadata records** using Google APIs.

PROJECTS

Natanam Events - Event Booking Platform

Independent

Built and deployed an end-to-end event registration and booking platform for dance studio events with event discovery, day-and-slot booking, and Razorpay payments; generated **₹10L+ revenue** and saved **20+ person-days per event**.

Full-Stack, Payments Integration (Razorpay)

SAP-Connected Data Dashboards - Bangalore International Airport (BIAL)

Independent

Built data-visualisation dashboards for Bangalore International Airport, connected to SAP systems and automated end to end.

SAP Integration, Data Pipelines, Data Visualisation

EDUCATION

B Tech, Computer Science SJCE

Mysore

Aug 2014 - Jul 2018 | GPA: 9.2

SKILLS

Languages: Java, TypeScript, JavaScript, Python, SQL

Backend & Distributed Systems: Node.js, NestJS, REST APIs, Microservices, Event-Driven Architecture, Concurrency Control, WebSockets (Socket.io), System Design Trade-offs

Data & Messaging: PostgreSQL, Redis (Sentinel), Apache Kafka, KafkaJS, Elasticsearch / OpenSearch, TypeORM, AWS SNS

Cloud & Infrastructure: AWS (EKS, S3, Route53, CloudFront, ACM), Kubernetes, Docker, Helm, Argo CD, Istio, Nginx Ingress, OCI, Cloudflare

Reliability & Delivery: CI/CD, GitLab, GitOps, Software Development Lifecycle (SDLC), Code Review, Observability, Sentry, Monitoring & Alerting, Incident Response

AI & LLMs: LLMs, Generative AI, AI Agents, Agentic Workflows, MCP (Model Context Protocol), LLM Tool Calling, Claude, Cursor

Security & Domain: Authentication, RBAC, Identity Federation, Multi-Tenant SaaS, Payments & Billing, OCPP 1.6 / 2.0, OCPI