

# JAIDEEP V

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## PROFESSIONAL SUMMARY

Full-stack software engineer with 4+ years of experience building high-performance distributed systems and modern frontends using React, Angular, Java/Spring Boot, and Node.js. Skilled in AWS, Azure, Docker, Kubernetes, and event-driven architectures with Kafka and Redis. Strong expertise in PostgreSQL, MongoDB, and Elasticsearch, delivering real-time analytics and reduced latency. Collaborative team player with experience mentoring engineers and driving high-impact solutions from design to production.

## WORK EXPERIENCE

### TD Bank, Full Stack Engineer

May 2023 – Present | New York, USA

- Built a scalable **ESG analytical platform** for financial analysts using **React, Java, Spring Boot, Postgres, and Kafka**, enabling real time evaluation of a company ESG financials across different sectors.
- Engineered and deployed **Java Spring Boot microservices** with **Apache Kafka** for real-time event streaming and **GraphQL** APIs for efficient data access, scaling to process millions of analyst events per day and reducing data latency by 90%.
- Led the **architectural integration** of React Micro-Frontends using **Webpack Module Federation** and a shared message bus, enabling independent deployment pipelines across **cross-functional teams**.
- Implemented **configurable, reusable UI components** in **React** using **React Router, Redux Toolkit Query, Hooks, and Context API**, achieving 60% fewer network calls, improved component reusability, and smoother **UI state management**.
- Integrated **ElasticSearch and Oracle** for hybrid search workloads, enabling analysts to query **millions of ESG records under 1s** and improving KPI-driven decision making.
- **Optimized** analytical search **REST API** performance by optimizing **JPA/Hibernate** ORM mappings, indexing, implementing **Redis based caching**, server side sorting and pagination, reducing round trip time (RTT) from 3s to under 100ms.
- Deployed **containerized** backend microservices with **Docker** on AWS EKS (Kubernetes) using **Helm charts** and hosted frontend React apps on **AWS S3** with CloudFront **CDN**, improving scalability and cutting latency by 40% globally.
- Designed **data driven React UI components** (charts, tables, and KPI cards) using **D3.js and Recharts**, improving financial insight clarity and reducing analyst data interpretation time by 50%.
- Configured **AWS API Gateway** and **Application Load Balancer (ALB)** to efficiently route and balance traffic across microservices, improving scalability, fault tolerance, and reducing response latency by 35%.
- Implemented Spring Security and **OAuth 2.0** for secure **RESTful APIs**, enabling role based access control and robust authentication for internal and external users.
- Collaborated with product managers and **UX designers** to refine **UI design** based on direct user feedback, boosting feature adoption and improving **customer** satisfaction scores.
- Developed end to end **MongoDB** aggregation and **ETL workflows** integrating with **Snowflake**, streamlining ESG data ingestion for backend services, reducing manual reconciliation by 90%, and improving reporting accuracy to 98%.
- Enhanced observability by integrating **Prometheus, Grafana, and custom analytics dashboards** to track **UI performance, user engagement, and SLA compliance**, improving visibility across frontend and backend systems.
- Conducted **anomaly detection** using Python based validation scripts, proactively identifying data quality issues and increasing reporting **accuracy by 98%**.
- **Mentored** junior engineers on React profiling, Redux Toolkit Query, Java **Spring Boot observability**, and Root Cause Analysis (RCA) practices, increasing team delivery velocity by 30% and reducing production defects by 25%.

### Lumen Technologies, Software Development Engineer

Aug 2021 – Jul 2022 | Bangalore, India

- Optimized a **multi-threaded** payroll processing engine in Java Spring Boot, **cutting compute time by 80%** and increasing throughput for large-scale employee batches.
- Designed **real-time Angular dashboards** that empowered support agents to triage customer tickets efficiently, cutting **resolution time by 40%** enhancing user experience and responsiveness.
- Integrated **Amazon S3** to store payroll Excel files and developed AWS **Lambda** functions to **enrich** the payroll data using employee information from **Amazon RDS**.
- Implemented state management in Angular using **NgRx**, improving application performance and maintainability.
- Orchestrated payroll microservices on **Kubernetes (EKS)** using **Helm charts**, enabling scalable, repeatable deployments and reducing release cycle times by **35%**.
- Enhanced microservice **resiliency** and **fault tolerance** by implementing **circuit breakers** and retry mechanisms using Spring Cloud, ensuring graceful degradation under system failures.
- Implemented **role based access control (RBAC)** and route guards in Angular using **AWS Cognito** for authentication and authorization, strengthening application security and simplifying user management across environments.
- Built **responsive, accessible** Angular UI components compliant with **WCAG 2.1** and **ARIA standards**, enabling seamless **keyboard navigation** and improving usability and accessibility across all devices.
- Built automated test suites using **JUnit** and **Mockito**, and maintained API documentation with **OpenAPI (Swagger)**; validated API functionality and performance through **Postman**.
- Refactored legacy **Spring** eBonding service application into **Spring Boot microservices**, enabling bi-directional ticket exchange between partner systems and improving system interoperability and SLA compliance.

- Cognizant Technology Solutions, Software Engineer

Jan 2021 – Jul 2021 | Hyderabad, India

  - Developed and deployed key modules of an **inventory management platform** for **Gap**, using **Java, Spring Boot, Node.js, React, PostgreSQL, and Elasticsearch**, hosted on **Azure App Services** for scalability and resilience.
  - Secured REST APIs with **JWT Authentication** and **Azure API Management**, ensuring data protection and compliance across services.
  - Developed **React frontends** with TypeScript and Material UI, improving component performance and load time by 40%.
  - Developed **Node.js backend services** with asynchronous event handling and **WebSocket communication**, enabling near real-time updates of inventory levels across warehouses and retail stores.
  - Built and optimized **CI/CD pipelines** with **Jenkins**, automating build, test, and deployment of **RESTful** Microservices to cut release cycles from weeks to days and improve delivery reliability.
  - Applied **design patterns and TDD practices**, improving code maintainability and cutting production defects by **30%**.
- ADP India Pvt Ltd, Intern

Sep 2020 – Dec 2020 | Hyderabad, India

  - Automated server data collection with **Ansible** and custom Python modules, **boosting** Splunk log ingestion by 5x.
  - Managed infrastructure as code using **Terraform**, provisioning AWS resources consistently across dev and staging environments.
  - Reduced **MTTR** by enabling proactive alerts on system health through real-time data streaming from **100+ nodes**.

TECHNICAL SKILLS

- Languages:** Java, C, C++, Python, Javascript (ES6+), Typescript, SQL, Shell script
- Database:** Oracle, PostgreSQL, MySQL, Cassandra, MongoDB, DynamoDB
- Frameworks:** Spring, Spring boot, Spring MVC, React, React Native, SwiftUI, Vue, Angular
- Cloud & DevOps:** AWS (ECS, S3, RDS, Lambda, EKS, CloudWatch), Azure, Docker, Kubernetes (k8s), Terraform, CI/CD (Jenkins, Azure Devops (ADO), GitHub Actions)
- Build and deployment tools:** Maven, Gradle, Webpack, Vite
- Monitoring & Debugging:** Prometheus, Grafana, Splunk, ELK stack
- Tools & IDEs:** IntelliJ IDEA, Eclipse, Visual Studio Code, GitHub, Bitbucket, GitLab
- Testing & QA:** JUnit, Mockito, Postman, Jest, React Testing Library, Selenium, Mocha, Test Driven Development (TDD), Integration Testing, Performance Testing, Load Testing.
- Other:** HTML, CSS, Redis, REST APIs, GraphQL, XML, Microservices, Node.js, Snowflake, WebFlux, Apache Kafka, React Query, RabbitMQ, Material UI, SonarQube, SonarLint, Mend, Linux, Unix, ansible, Swagger, Log4j, Figma, Node, Json, Git, JIRA, Tomcat
- Methodologies & Practices:** Agile, Scrum, SDLC, Waterfall, Sprint Planning, Code Review, Collaboration, Mentorship, Documentation

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate**
- Microsoft Azure Fundamentals**

CONTRIBUTIONS & PROJECTS

- Meeting Summarizer (Hackathon Winner):** Built a full-stack **LLM powered** meeting assistant using WhisperX and Gemini for real-time speech transcription and summary generation. Demonstrated rapid innovation and **won first place** out of 30+ teams.
- Telugu Text Classification (IEEE Published):** Conducted **machine learning** research using morphological preprocessing to enhance classification accuracy in Telugu, contributing to **NLP advancements** for low-resource, globally underrepresented languages.
- SMS Relay:** Built a real-time **React Native application** that reads SMS/OTP and securely relays it to subscribed devices using AWS services, following an event-driven, IoT-style architecture for cross-device communication.

EDUCATION

- University of Maryland Baltimore county,

Master of Science in Computer Science (3.7/4.0)

Relevant coursework: Distributed Systems, Machine Learning, Cloud Computing, Data Structures & Algorithms.
- Aug 2022 – May 2024 | Baltimore, USA