

DEEKSHITH ALAMPALLY

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SUMMARY

Software Engineer with 4+ years of experience designing and developing scalable, cloud-native applications using Java, Spring Boot, React, TypeScript, and SQL. Experienced in building microservices, REST APIs, event-driven systems, and secure backend services while working with AWS, Docker, Kubernetes, Terraform, and CI/CD pipelines. Proficient in developing full-stack applications, integrating AI/LLM-powered features, optimizing application performance, and working with PostgreSQL, MySQL, MongoDB, and Redis. Skilled in Agile Scrum, system design, automated testing, and production monitoring using Grafana, Prometheus, and CloudWatch to deliver reliable, secure, and high-quality software solutions.

SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, SQL
- **Frameworks & Libraries:** Spring Boot, Hibernate, Node.js, Express.js, React, Redux, REST APIs
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, Terraform, Jenkins, CI/CD, Git
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Testing & Tools:** JUnit, Jest, Postman, Maven, Jira, Grafana, Prometheus, CloudWatch
- **Concepts:** Microservices, Event-Driven Architecture, AI/LLM Integration, Secure Coding (OWASP), Data Structures & Algorithms, System Design, Agile & Scrum

WORK EXPERIENCE

Kaiser Permanent

Feb 2026 – Present

Software Engineer

- Spearheaded the AI-Powered Patient Care Coordination Platform by designing scalable Spring Boot microservices and integrating LLM-powered clinical assistance to streamline patient scheduling, care coordination, and provider workflows, improving operational efficiency by 38%.
- Architected secure backend services using Java, Spring Security, PostgreSQL, Redis, and Apache Kafka to support event-driven communication, role-based access control, and high-performance healthcare data processing while reducing API response time by 42%.
- Developed reusable React and TypeScript components integrated with REST APIs, implemented Redux for state management, and optimized application performance, increasing user satisfaction scores by 27%.
- Implemented cloud-native deployment pipelines using AWS (EC2, Lambda, RDS, S3), Docker, Kubernetes, Terraform, and Jenkins, enabling automated infrastructure provisioning, CI/CD, application scaling, and production monitoring.
- Collaborated with cross-functional engineering, QA, and product teams to perform code reviews, write JUnit test cases, monitor services using Grafana, Prometheus, and CloudWatch, and deliver secure, HIPAA-compliant software following Agile Scrum and OWASP best practices.

TatvaSoft

Oct 2019 – Jul 2023

Software Engineer

- Contributed to the Customer Order Management Platform by developing Java and Spring Boot REST APIs for order processing, customer management, and product catalog features while collaborating with senior engineers in an Agile environment.
- Developed backend services using Spring Boot, Hibernate, and MySQL to implement business logic, perform CRUD operations, and support secure database transactions.
- Built responsive user interfaces with React, JavaScript, HTML, and CSS, improving page responsiveness and increasing user task completion efficiency by 25%.
- Integrated RESTful APIs with frontend components, validated request and response data, and resolved functional issues, reducing application defects by 30% during testing.
- Wrote SQL queries, stored procedures, and database updates for MySQL, improving data retrieval performance by 20% while maintaining data consistency.
- Assisted in deploying application builds using Git, Maven, Jenkins, and Docker, supporting CI/CD workflows and decreasing deployment time by 35%.
- Participated in unit testing with JUnit, API validation using Postman, and defect tracking through Jira to ensure reliable software releases and maintain code quality.
- Collaborated with cross-functional teams during sprint planning, code reviews, and daily stand-ups while following Agile Scrum, version control best practices, and secure coding standards.

PROJECTS

Cloud Cost Optimization Dashboard

- Built cloud usage analytics using AWS Cost Explorer API, Amazon Athena, and Amazon QuickSight to monitor infrastructure spending, analyze resource utilization trends, optimize cloud costs, and support data-driven financial decision-making.
- Automated cost reporting and budget alerts using AWS EventBridge and Amazon SNS notifications, enabling proactive cost governance, anomaly detection, budget compliance, operational visibility, and cloud financial management.

API Gateway & Service Mesh Implementation

- Configured Kong API Gateway for API routing, authentication, and rate limiting across microservices, ensuring secure API exposure, high availability, centralized policy enforcement, and scalable traffic management.
- Implemented secure service-to-service communication using Istio Service Mesh with traffic management and observability, enabling mutual TLS (mTLS), intelligent traffic routing, fault tolerance, distributed tracing, and performance monitoring.

EDUCATION

Master of Science in Computer Science

Aug 2023 – Dec 2025

California State University, San Bernardino

CERTIFICATION

AWS Certified Data Engineer – Associate