Pranaya Vangala

Java Full Stack Engineer

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Summary

Java Full-Stack Engineer with 5+ years of experience in designing and deploying scalable web applications. Proficient in Java, Python, JavaScript, React.js, Spring Boot, and Node.js. Expertise in microservices architecture, AWS, Docker, Kubernetes, CI/CD pipelines, and distributed systems. Skilled in database optimization (MySQL, MongoDB), automated testing frameworks (JUnit, Mockito), and Agile methodologies. Adept at delivering high-performance, secure, and scalable solutions while enhancing development workflows.

Education

Master Of Science in Data Science

Jawaharlal Nehru Technological University, India

Bachelor of Technology in Computer Science and Engineering

Jawaharlal Nehru Technological University, India

Jan 2023 - Dec 2024 Jul 2017 - May 2021

Skills

- Programming Languages: Java, Python, JavaScript, SQL
- Front-End Development: React.js, HTML5, CSS3, JavaScript (ES6+)
- Back-End Development: Spring Boot, Node.is, Express.js, RESTful APIs
- Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes, Git, Jenkins, Terraform
- Database Management: MySQL, PostgreSQL, MongoDB
- Testing & QA: JUnit, Mockito, Jest, Selenium, Cucumber, Postman, JMeter
- Tools & Methodologies: GitHub, Maven, CircleCI, CI/CD, Agile (JIRA, Trello)

Experience

Cargill, USA

Sep 2023 - Current

Software Development Engineer

- Designed and implemented end-to-end microservices architecture using Spring Boot and RESTful APIs, ensuring scalability
 and modularity for core business functionalities.
- Improved deployment efficiency by streamlining CI/CD pipelines using Jenkins, integrating automated testing frameworks like JUnit and Mockito.
- Automated cloud infrastructure provisioning with Terraform, deploying AWS resources such as EC2, S3, and RDS, reducing
 manual intervention.
- Configured AWS CloudWatch for real-time monitoring and alerting, cutting incident resolution time.
- Developed dynamic user interfaces with React.js and Redux, enhancing frontend performance and reducing client-side latency and Secured API integrations using OAuth2 and implemented encryption protocols.
- Conducted performance tuning of backend processes and MySQL queries, achieving a reduction in query execution times.
- Collaborated cross-functionally to ensure seamless integration between frontend and backend components, delivering the project within timelines and with zero critical bugs.

TCS,India

Application Developer

Sep 2021 - Aug 2023

- Developed 20+ reusable UI components with React Native, Node.js, and TypeScript, leveraging custom hooks and ES6+ features, reducing development time by 30% and improving code efficiency by 25%.
- Deployed applications using AWS S3, RDS, and DynamoDB, implementing fault-tolerant architectures, increasing scalability by 35%, and reducing downtime by 40%.
- Improved API performance with Redux-Saga, enhancing state management and middleware processing, achieving a 99% API success rate and reducing response times by 20%.
- Applied Test-Driven Development (TDD) with Jest and Mocha, achieving 20% fewer bugs in production and ensuring longterm code reliability.
- Optimized frontend load times by 25% using lazy loading, code splitting, and tree shaking, reducing bundle sizes by 20% for improved performance.
- Secured APIs using JWT authentication, OAuth2, and HMAC encryption, ensuring compliance with OWASP standards and reducing unauthorized access incidents by 15%.
- Conducted system profiling with Chrome DevTools and Postman, optimizing middleware latency by 10% and reducing SQL query execution times by 15%.
- Automated CI/CD pipelines with Jenkins and GitHub Actions, integrating SonarQube for static code analysis and Docker for containerized deployments, cutting deployment times by 20%.

Medisys Edu Tech pvt ltd, India Software Engineer

Jan 2019 – Aug 2021

- Developed a secure online banking platform using Spring Boot and React.js, achieving a 95% reduction in unauthorized access incidents with Role-Based Access Control (RBAC) and JWT-based authentication.
- Optimized API response times by 30% by designing and implementing RESTful APIs using Spring Boot and integrating Swagger for documentation and testing.
- Integrated the bank's core banking system through secure REST APIs, improving real-time transaction processing speed by 40% and enhancing customer satisfaction.
- Enhanced database query performance by 25% through optimized indexing, use of Hibernate caching, and stored procedures in MySQL hosted on AWS RDS.
- Built and deployed a containerized microservices architecture using Docker and implemented CI/CD pipelines with Jenkins, reducing deployment time by 40%.
- Improved application availability to 99.99% uptime by leveraging AWS EC2, S3, and CloudWatch for hosting, monitoring, and scaling the application.
- Implemented advanced security measures such as AES-256 encryption, SSL/TLS protocols, and regular vulnerability scanning using Nessus, ensuring compliance with ISO 27001 and PCI DSS standards.