

SAISRUJAN PALLA

Software Engineer

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SUMMARY

Senior Backend Software Engineer with 3 years of experience specializing in **Java**, **Spring Boot**, and **Python**, proficient in designing and deploying scalable microservices. Extensive experience in **event-driven architectures**, **AWS cloud platforms**, and containerized deployments using **Docker** and **Kubernetes**. Skilled in **REST API development**, **Test-Driven Development (TDD)**, and implementing **CI/CD pipelines** with **Jenkins**. Hands-on experience in **React**, **Hibernate**, and relational and NoSQL databases like **AWS DynamoDB**, **RDS**, and **MongoDB**. Strong understanding of messaging technologies and low-level technical concepts such as concurrency and JVM optimization.

EXPERIENCE

Full Stack Intern

GSSL AI

📅 03/2024 - Present 📍 London

- Developed and deployed event-driven microservices using **Java**, **Quarkus**, and **RabbitMQ** to enhance the scalability and performance of internal services.
- Designed **RESTful APIs** to support seamless microservice interactions, improving system performance and reducing latency.
- Developed backend modules using **JDBC** for direct **SQL query execution**, ensuring high-performance data access and manipulation.
- Implemented custom connection pooling using **JDBC**, improving database connection efficiency and reducing connection overhead by 25%.
- Implemented **Hibernate caching** strategies to reduce redundant queries and improve system performance, decreasing database load by 30%.
- Developed highly modular and reusable **React** components using **React Hooks (useState, useEffect)** for state and lifecycle management, reducing code duplication by 25% and improving maintainability.
- Integrated **AWS DynamoDB** for low-latency NoSQL storage, improving query performance for real-time transactional data.
- Leveraged **PostgreSQL** for relational data storage, implementing indexing and optimization strategies to enhance query execution times.
- Containerized services using **Docker** and orchestrated deployments via **AWS EKS**, reducing downtime during scaling operations by 40%.
- Automated **CI/CD** pipelines with **Jenkins** and **AWS ECR**, streamlining deployments and reducing manual intervention.
- Enhanced system observability and monitoring with **AWS CloudWatch** and **Splunk**, reducing incident response times by 35%.

Software Engineer

Cognizant Technology Solutions

📅 01/2021 - 09/2023 📍 Bengaluru, Karnataka

- Developed and deployed distributed microservices using **Java**, **Spring Boot**, and **Kafka**, implementing an **event-driven architecture** with **AWS SQS** for reliable communication and improved scalability.
- Implemented **RESTful APIs** for internal and external services with **OAuth 2.0** and **JWT**, ensuring secure authentication and access control.
- Designed and optimized database interaction using **Hibernate ORM**, ensuring efficient **data retrieval and persistence** across multiple relational databases.
- Implemented **Hibernate caching** strategies to reduce redundant queries and improve system performance, decreasing database load by 30%.
- Optimized state management in **React** applications using **Redux**, reducing API call redundancies by 30% and improving data flow consistency.
- Implemented **React Router** for client-side routing, improving navigation and reducing load times with **SPA** behavior.
- Optimized **React** rendering with **memoization** (React.memo, useMemo) and code-splitting (React.lazy), cutting load times by 40% and boosting scalability.
- Optimized **AWS RDS** for high-volume transactions by improving indexing and schema design, reducing response times by 25%.
- Utilized **MongoDB** to handle unstructured data, implementing efficient sharding and indexing strategies to support dynamic schema evolution.
- Automated **CI/CD** pipelines with **Jenkins** and **Git**, enabling continuous integration and delivery while reducing deployment time by 20%.
- Deployed microservices on **Kubernetes** clusters with **Helm** charts, optimizing resource allocation and reducing infrastructure costs.
- Orchestrated service discovery and load balancing with **Kubernetes Ingress Controllers**, improving availability and reducing latency for critical services.
- Automated infrastructure provisioning with **Terraform** and **AWS CloudFormation**, cutting provisioning times by 50% and ensuring environment consistency.
- Monitored application health with **Prometheus** and **Grafana**, improving system visibility and reducing downtime through proactive alerts.
- Worked in **Agile** teams using **Scrum** and **Kanban** methodologies for iterative development and continuous delivery.

CERTIFICATION

AWS's solutions architect associate

Coursera Server-side Development with NodeJS, Express and MongoDB

SKILLS

Programming Languages

Java, Python, JavaScript, HTML5, CSS

Frameworks and Libraries:

Spring Boot, Quarkus, Express, React JS, Node JS, http4k, RESTful APIs, Hibernate, JDBC Swagger, Jackson, Retrofit, Feign, Lombok, Guava, Apache HttpClient, SLF4J, Logback

Developer Tools and Testing

IntelliJ IDEA, Postman, Eclipse, Gradle, Git, Maven, JUnit, Mockito

DevOps and Cloud

Jenkins, Gitlab CI, Docker, Kubernetes, AWS (S3, EKS, ECR, CloudFormation, API Gateway, EC2, Fargate, SNS), Terraform, Argo CD

Databases

MongoDB, PostgreSQL, Oracle, Redis, AWS DynamoDB, AWS RDS, MySQL, NoSQL

Architecture and Messaging:

Design Patterns, Event-Driven Architecture, Apache Kafka, RabbitMQ, AWS SQS, OAuth, JWT

Monitoring and Logging

Prometheus, Grafana, Splunk, DataDog, AWS CloudWatch, Elasticsearch

EDUCATION

Master's in Advanced Computing

Birkbeck University London

📅 10/2023 - 10/2024 📍 London

Bachelor's in Computer Science

Amrita Vishwa Vidyapeetham

📅 04/2017 - 05/2021 📍 Bengaluru , Karnataka

PROJECTS

Distance In Grid Graphs

- Developed a novel algorithm for calculating distances in grid graphs, reducing the time complexity from $O(n^2)$ to $O(n \log n)$, significantly improving computational efficiency.

Credit Card Management System

- Designed and developed a **microservices-based credit card management system** using **Spring Boot** and **Kubernetes**, ensuring scalability and resilience.
- Increased data integrity by 25% through implementing **thread-safe**, concurrent transaction processing with synchronized access.
- Utilized **Kubernetes Namespaces** and **Network Policies** for secure service isolation and efficient network segmentation.
- Implemented basic **fraud detection** mechanisms using transaction patterns, helping users identify suspicious activities in their accounts.