SAISRUJAN PALLA

Software Engineer

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📍 London , United Kingdom

SUMMARY

Versatile Software Engineer with 3 years of experience in full-stack development, specializing in Python, Java, React, and cloud-based solutions using AWS. Demonstrated expertise in building RESTful APIs, microservices, and implementing robust CI/CD pipelines using Docker and Kubernetes. Skilled in optimizing database performance with PostgreSQL and other relational databases. Adept at solving complex technical problems in dynamic environments and continuously adapting to emerging technologies. Currently pursuing a Master's in Advanced Computing at Birkbeck University, London.

EXPERIENCE

Full Stack Developer

GSSL AI

📅 03/2024 - Present   📍 London

- Developed and maintained backend services using Java and Quarkus, focusing on performance optimization, Reactive Programming, and API integration.
- Developed and optimized complex React components, ensuring high performance and enhanced user experience across multiple devices.
- Developed and optimized AWS Lambda functions using Python, implementing Singleton and Factory design patterns for scalable and maintainable code.
- Optimized PostgreSQL performance with advanced indexing and query tuning, enhancing data retrieval speed and application efficiency.
- Integrated AWS services including S3 and Lambda for efficient data storage and processing, automating serverless workflows.
- Designed an event-driven architecture to handle large-scale data processing, reducing AWS cloud costs by 20% through optimized resource utilization.
- Developed and deployed microservices on Kubernetes, utilizing Helm charts for efficient management and version control of application releases.

Software Engineer

Cognizant Technology Solutions

📅 07/2021 - 09/2023   📍 Bengaluru, Karnataka

- Collaborated with stakeholders to translate business requirements into technical solutions, ensuring alignment with project goals.
- Developed and deployed secure, high-performance applications using Java and Springboot.
- Built interactive and responsive user interfaces with React.js, improving user experience and engagement.
- Architected project infrastructure on AWS using CloudFormation, Terraform, and VPC setup, ensuring secure and scalable deployment environments.
- Designed and optimized databases using MongoDB for NoSQL data storage.
- Implemented advanced indexing strategies for Oracle databases, significantly improving query performance and data retrieval speed.
- Implemented a Circuit Breaker pattern to resolve a critical production issue, reducing system downtime by 35% and safeguarding significant revenue.
- Designed a batch processing system using RabbitMQ to handle large-scale data processing, optimizing resource utilization.
- Managed containerized applications using AWS ECR and EKS, optimizing deployment pipelines and orchestration.
- Implemented Node.js scripts to retrieve and process data from datalake, streamlining data access and analysis.
- Engineered CI/CD pipelines by integrating Jenkins with Git, utilizing Dockerized builds to automate deployments.

Software Engineering Intern

Cognizant Technology Solutions

📅 01/2021 - 06/2021   📍 Bengaluru, Karnataka

- Improved API scalability by {30%} by developing backend services using Node.js.
- Assisted in deploying applications on AWS EC2, configuring networking rules and security groups to ensure secure operations.
- Implemented automated unit and integration testing using Mocha and Chai, improving code reliability and reducing bugs before production deployment.
- Automated deployment tasks and monitored cloud infrastructure, ensuring optimal system performance.
- Contributed to team efforts by writing and maintaining comprehensive documentation for various systems and processes.

CERTIFICATION

AWS's solutions architect associate

Coursera Server-side Development with NodeJS, Express and MongoDB

SKILLS

Java   Python   Node JS   JavaScript

React JS   Vue JS   Springboot

Quarkus   Django   Gradle   Maven

Junit   Docker   Kubernetes   CI/CD

Jenkins   PostgreSql   MongoDB

MySql   Microservices   Restful Api's

Git   Event-Driven Architecture

Terraform   Argo CD   Prometheus

Design Patterns   Liquibase   Grafana

Amazon web services(AWS)

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

📅 06/2023 - Present   📍 Birkbeck University,London

Software Engineer

- 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.

Job Match AI

📅 01/2024 - Present   📍 Birkbeck University,London

Software Engineer

- Increased resume matching success rate by {25%} by developing Job Match AI for ATS-friendly resumes.
- Increased application efficiency by {30%} by integrating {5} job search platforms into a unified system.