Pragyanshu Rai

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PROFESSIONAL SUMMARY

Software Development Engineer with 3+ years of experience building scalable, reliable, and secure applications using Java, Spring Boot, AWS Cloud, and gRPC. Proven track record in delivering enterprise-grade microservices, implementing CI/CD pipelines, and modernizing legacy systems with 92% cost reduction. Strong at problem solving, cross-functional collaboration, and agile delivery, with an emphasis on innovation, ownership, and system performance & reliability.

WORK EXPERIENCE

Software Development Engineer | Hitachi Vantara | Hyderabad, India

Jun. 2022 - Present

- Enterprise Factory Configurator (Toyota Motor Corporation)
- Led modernization of a legacy vehicle configurator into a microservices-based architecture using Spring Boot and gRPC servers, improving modularity, maintainability, and inter-service performance.
- **Designed and implemented a gRPC server** for real-time vehicle data exchange, reducing API response latency by **30%** and enabling **scalable communication** across services.
- Coordinated with product, QA, and DevOps teams to migrate infrastructure to AWS (RDS, ECS, ALB, Route 53, Lambda), reducing cost by 92% while boosting reliability and uptime.
- Designed and maintained CI/CD pipelines (migrated from Jenkins to GitHub Actions) with rollback strategies, automated tests, and quality gates, achieving zero-downtime deployments.
- o Embedded security checks and automated validations within pipelines to ensure compliance and reduce defects.
- Collaborated with stakeholders to translate business requirements into HLD/LLD, aligning technology with business goals.

• SureTime (Surepoint)

- Developed a timekeeping and cost-monitoring app with Spring Boot, leveraging multithreading, Quartz, and ThreadPoolExecutor for high-concurrency workloads.
- Integrated gRPC APIs alongside REST, ensuring low-latency inter-service communication and improving throughput for time-critical operations.
- Built serverless workflows with AWS Lambda, SQS, SNS, Step Functions, improving reliability and scalability
 of event processing.
- Worked with security and DevOps teams to embed **IAM policies and secrets management** into workflows.
- Delivered 100% automated test coverage, improving quality assurance and reducing regression incidents.

Software Development Engineer - Trainee | Hitachi Vantara | Hyderabad, India Jan. 2022 - Jun. 2022

- Schedio (Hitachi Internal Project)
 - Directed a team of 6 interns to build a **REST + gRPC API** in **Spring Boot** for event creation and tracking, demonstrating **leadership**, **mentoring**, **and collaboration**.
 - Designed gRPC endpoints for fast event lookup and updates, reducing query execution time for concurrent requests.
 - Formulated a high-level design outlining the database relations to ensure data normalization and minimize redundancy.
 - Achieved enhanced optimization through the adoption of indexing and connection pooling achieving 30% faster queries.
 - Conducted training workshops to teach interns Spring Boot, database optimization, and CI/CD best practices, fostering a culture of continuous learning.

Software Development Engineer - Intern | Prakya Inc | Bengaluru, India

Oct. 2021 - Jan. 2022

• Prakya 360

- o Built a report generation module using Apache POI and iText in Java, exporting reports in PDF/Excel.
- o Applied SOLID and DRY principles, improving code quality and maintainability.
- o Automated testing and recurring tasks with **Bash scripts**, improving **team productivity**.
- o Optimized runtime performance with efficient data structures (Sets, Maps) for handling large datasets.

TECHNICAL SKILLS

Languages: Java, JavaScript (Node), HTML, CSS, Bash

Framework and Tools: Spring Boot, gRPC, React, Docker, Git, Github Actions

Database: MySQL, PostgreSQL

Cloud Platforms and Others:

Architectures:

AWS (EC2, Lambda, RDS, SQS, SNS, S3, Route 53, ECS, ALB)

Microservices(Database per service, Circuit Breaker, Orchestrator)

Multithreading, High-Level Design, Low-Level Design, DSA, CI/CD

CERTIFICATION

AWS Certified Developer - Associate

Apr 2024

HackerRank Certified Problem Solving

Apr 2024

EDUCATION

B-Tech in Computer Science
School Of Technology, GITAM, Hyderabad

Jul. 2018 - Apr 2022

GPA: 8.4/10