

Prem Duvvapu

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EXPERIENCE

Software Development Engineer

June 2024 - March 2025

Vegrow

Bangalore, India

- Upgraded a critical Ruby on Rails application by migrating the **Rails version from 6.0 to 7.1** and **Ruby version from 2.7 to 3.3**, ensuring improved performance and compatibility. **(Proof of work)**
- Contributed to increasing **unit test coverage** for a critical **Ruby on Rails** application from **8% to 90%** using **RSpec**, as part of a team of 5, significantly enhancing code quality, reliability, and maintainability.
- Configured a GitHub self-hosted autoscaling runner on **AWS EKS**, slashing **CI/CD** pipeline execution time by **40%** and accelerating software release cycles, which empowered the team to ship new features quicker.
- Reduced **unit test runtime by 50%** by implementing **parallel execution** for unit tests.
- Enabled **centralized logging** for critical **AWS** services, reducing debugging time by **30%** and ensuring compliance through properly configured **retention policies**.
- Implemented a **bastion host**, enhancing security by restricting direct access and providing 100% controlled interactions with services.

Software Development Engineer Intern

January 2024 - May 2024

Vegrow

Bangalore, India

- Optimized **API efficiency in Ruby on Rails**, reducing response times by **more than 60%** through datatables integration, queries optimization and preloading associations for improved performance and user experience.
- Developed a **Golang API** to track OTP status for the organization, enabling real-time monitoring of 10,000 OTPs/month sent via **Kaleyra**, improving issue resolution time by 40%.
- Established centralized logging for all backend services using **New Relic**, reducing log retrieval time by 60% and enhancing debugging efficiency.
- Designed and configured **New Relic dashboards** using NRQL, providing visibility into 100% of frontend and backend services, improving incident detection and response time by 30%

EDUCATION

Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada

CGPA - 9.05

Bachelor of Technology in Computer Science

2020 - 2024

TECHNICAL SKILLS

Languages: Java, Python, Ruby, Golang, SQL

Frameworks: Ruby on Rails, Spring Framework (Spring Boot, Spring Data JPA, Spring Security, Spring Cloud)

Developer Tools: Git, Docker, Github Actions, Kubernetes, AWS(EC2, S3, CloudWatch, ECR, IAM, Lambda, EKS), Jenkins, New Relic

Core Subjects: DSA, DBMS, Computer Networks, Operating Systems

ACHIEVEMENTS

- Earned the **Knight badge** on LeetCode, placing in the top 5% of users globally.
- Secured Rank 663 out of 21,511 participants (**top 3%**) in LeetCode Biweekly Contest 156.

CERTIFICATIONS

- Certified in Java Spring Framework 6 with Spring Boot 3 by Telusko - *Certificate Link*

PROJECTS

Quiz app | *Java, Spring Boot, Spring Data JPA, Spring Cloud, OpenFeign, PostgreSQL, Eureka*

[Source Code](#)

- Developed a modular quiz application using Spring Boot microservices, separating concerns into question and quiz services, each following clean MVC architecture.
- Implemented service discovery with Eureka and OpenFeign for decoupled inter-service communication, enhancing maintainability and scalability.
- Built REST APIs for quiz lifecycle (creation, attempt, scoring) and integrated PostgreSQL using Spring Data JPA.