Prem Duvvapu

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EXPERIENCE

Software Development Engineer — June 2024 - March 2025
Vegrow — *Bangalore, India*

- Developed APIs and views in **Ruby on Rails** to manage supply chain operations.
- Built a **Golang microservice** to generate, send, and track OTPs sent through Kaleyra.
- Optimized API performance in **Ruby on Rails**, reducing response times by 60% through datatables integration, query optimization, and preloading associations.
- Upgraded **Ruby on Rails from 6.0 → 7.1** and **Ruby from 2.7 → 3.3**, improving performance and compatibility.
- Configured a GitHub self-hosted autoscaling runner on **AWS EKS**, cutting CI/CD pipeline execution time by 40% and enabling faster feature releases.
- Reduced **unit test runtime by 50%** by implementing **parallel execution** for unit tests.
- Enabled **centralized logging** for **AWS** services, reducing debugging time and ensuring compliance through properly configured **retention policies**.

Software Development Engineer Intern — January 2024 - May 2024
Vegrow — *Bangalore, India*

- Implemented a **bastion host**, enhancing security by restricting direct access and providing 100% controlled interactions with services.
- 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.
- Established centralized logging for all backend services using **New Relic**, reducing log retrieval time by 60% and enhancing debugging efficiency.

EDUCATION

Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada — CGPA - 9.05
Bachelor of Technology in Computer Science — *January 2021 - April 2024*

TECHNICAL SKILLS

Languages: Java, JavaScript, Golang, SQL
Frameworks and Libraries: Spring Boot, React.js, Ruby on Rails
Developer Tools: Git, Docker, GitHub Actions, Kubernetes, AWS, Jenkins, New Relic
Core Subjects: DSA, DBMS, Operating Systems, Computer Networks

ACHIEVEMENTS

- Earned the **Knight badge** on LeetCode, placing in the top 4% of users globally.
- Secured Rank 663 out of 21,511 participants (**top 3%**) in LeetCode Biweekly Contest 156.

PROJECTS

Portfolio | **Live link** | *HTML, CSS, JavaScript, React.js, Vercel* — Source Code

- Personal portfolio showcasing GitHub projects, resume, and technical skills.
- Multi-page layout, styled with React Bootstrap and CSS, fully responsive.

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.