Venkatesh K

Software Engineer

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Portfolio

https://venkateshk22.github.io/Portfolio/

https://linkedin.com/in/venkatesh-k-20b610109

Achievements

Rockstar Award: Successfully eliminated a critical production defect, acknowledged by the U.S.-based Senior Manager.

Operational Excellence: Consistently recognized for effectively managing workflows and delivering sprint-level user stories across two fiscal quarters.

AWS Project Recognition: Praised by management for successfully leading the AWS migration and optimization project, achieving cost reductions and performance improvements.

Leadership: Elected President of Placement & Operations; led coding teams to win inter-college competitions.

Spoken Languages

English, Hindi, Kannada, Telugu, Tamil, Malayalam.

Work experience

January 2022 - November 2024

Software Engineer

Oracle

- Optimized existing API endpoints by refactoring code and applying best practices, resulting in up to 40% improvement in response times. Contributed to optimizing enterprise-wide CI/CD tools through collaboration with cross-functional teams and proposing innovative solutions.
- Built secure APIs with JWT-based authentication and role-based authorization, integrating with OAuth2 for enterprise-level security requirements.
- Led feature development from requirement gathering to deployment, collaborating with product managers, QA, and DevOps teams.
- Optimized complex SQL queries and database indexing strategies, reducing API response latency by up to 60% and significantly improving system performance
- Implemented the Circuit Breaker pattern using Resilience4j in Spring Boot microservices to gracefully handle service failures and improve system resilience under load.
- Set a new team record by resolving over 60 tickets and triaging more than 25 high-priority production issues, clearing 85% of the backlog. Maintained zero open tickets for a month, a first in team history during a flawless fiscal quarter.
- Automated operational workflows using Ruby scripts, saving over 40 hours per month and improving team efficiency by 80%. Directed the end-to-end migration of AWS RDS clusters for microservices across pre-production and production zones, cutting costs by 10% and boosting system reliability.
- Delivered two or more features per sprint with 100% on-time completion and authored over 30 code fixes, reducing recurring issues by 50%. Addressed over 100 CVEs with a 99% success rate in secure deployments while maintaining 95% accurate documentation.

Education

March 2020 - March 2022

Master of Computer Applications (MCA)

Amrita Vishwa Vidyapeetham

GPA: 7.63/10

March 2017 - March 2020

Bachelor of Computer Applications (BCA)

Amrita Vishwa Vidyapeetham

GPA: 7.98/10

Projects

AWS Migration and Optimization

- Led the migration of multiple services to AWS, including AWS RDS, IAM, and networking components. Conducted performance analysis and optimization to enhance system reliability and reduce costs.
- Implemented AWS IAM roles and policies to ensure secure access to AWS resources. Configured AWS RDS for optimal performance and scalability, including database monitoring and tuning.
- Utilized AWS CloudWatch for monitoring and alerting, identifying and resolving performance bottlenecks. Migrated existing infrastructure to AWS, minimizing downtime and data loss.

- Collaborated with cross-functional teams to fine-tune database queries and optimize data retrieval using indexing, significantly enhancing system responsiveness.

Automated Real-Time Monitoring Integration and Jira Story Generation

- Designed and implemented an automated system for generating Jira tickets using data from Splunk and New Relic via API integrations. Enabled real-time alerting and response by connecting alerts to Microsoft Teams and Slack through webhooks.
- Developed a Ruby script to monitor the operations of data processing bolts and spouts. The script automatically captured evidence of performance bottlenecks from Splunk and New Relic and used this data to create detailed Jira tickets, streamlining incident response and improving operational efficiency.
- Integrated monitoring tools to provide actionable insights into data processing workflows, allowing for proactive issue identification and resolution.
- This automation saved significant time for the dedicated operations personnel, enabling them to focus on critical actions rather than continuous monitoring. As a result, there was a 100% improvement in performance and response times.

Skills

Programming: Java, Ruby, Python, SQL.

Cloud & DevOps: AWS (RDS, IAM, Networking, Monitoring), Kubernetes, Docker, Jenkins, CI/CD Pipelines.

Tools: New Relic, Splunk, GitHub, JIRA, Spinnaker, Confluence.

Frameworks: SDLC, Agile, Scrum, Microservices