Mahesh bathina

Software Engineer

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Education

•**Bachelor of Technology in Computer Science and Engineering** *2020-24*

Rajiv Gandhi University of Knowledge Technologies, Nuzvid CGPA: 9.2

•**Pre University Course** *2018-20*

Rajiv Gandhi University of Knowledge Technologies, Nuzvid CGPA: 8.8

Experience

•**Software Engineer 1** *June 2024 - Present*

BlackDuck Bangalore

– As a Backend Developer specializing in Golang, I have worked on Cloud Native Coverity K8s based product and made significant contributions to the following microservices:

Scan Engine

* Enabled parallel job execution on Kubernetes clusters for OnPrem deployments, improving resource utilization while maintaining performance.
* Automated job lifecycle management with sidecar containers for SaaS platform to handle failures and resource cleanup, reducing manual intervention and improving job completion rates.

Storage Service

* Implemented multipart upload for large files across multiple storage backends (AWS S3, Azure Blob Storage, GCP Cloud Storage, Minio), achieving 1.5-2.8x faster uploads and reducing failures.
* Enhanced cleanup script to delete orphaned data.zip files from interrupted CLI scans, resolving retention gaps.
* Integrated Azure Blob storage with custom domain support, workload identity authentication, and presigned URL generation.

Other Key Contributions

– Implemented PostgreSQL Read Replicas with PGPOOL load balancing across all K8s cluster types (AWS, Azure, GCP, Pure K8s, OpenShift).
– Upgraded embedded PostgreSQL to version 16.x with static linking for embedded and external DB deployments.
– Built CI/CD pipelines automating deployment with version control, containerization, and notifications.
– Implemented distributed tracing for microservices APIs to enable performance monitoring and debugging.
– Managed IaC and container orchestration across multi-cloud environments, including Helm chart maintenance.
– Migrated container images to private Google Artifact Registry with multi-architecture support (AMD64, ARM64).

•**Technical Intern** *July 2023 - June 2024*

Synopsys Bangalore

– Worked on creation of cloud infrastructure using Terraform scripts and automated software integration.
– Gained in-depth understanding of Docker, Kubernetes, Helm, GitLab Pipelines, and Golang.
– Worked on GitLab CI/CD Automation to automate the Dev and Release Pipeline.
– Involved in triaging and fixed the issues in case of any failure across multiple pipelines.

Projects

•**Face Based Attendance System** *Python, Deep Learning, HTML, CSS, Bootstrap, Django* ○ Source Code

– Developed a CNN-based automated attendance system to streamline group attendance using facial recognition.
– Achieved 90% reduction in time spent on manual attendance recording with 95% accuracy on average.
– Implemented using Python, TensorFlow, and OpenCV to capture and process class photos for automatic attendance marking.

Technical Skills and Interests

Languages: Golang, C/C++, Core Java, Python
Programming Concepts: OOPS Concepts, Design Patterns, Data Structures and Algorithms, System Design
Frameworks: Spring Boot, Django
CI/CD: GitLab CI/CD, Concourse
Container Orchestration: Kubernetes (GKE, AKS, EKS), Docker, Helm
Infrastructure Automation: Terraform, Shell Scripting
Cloud Technologies: GCloud, AWS, Azure, Openshift
Databases & Messaging: PostgreSQL, Kafka
Monitoring & Observability: Grafana, Loki, Prometheus, OpenTelemetry
Operating Systems: Linux
Areas of Interest: DevOps, Backend Development, Microservices Architecture.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

CERTIFICATIONS

- Microsoft Certified: DevOps Engineer Expert Link
- Microsoft Certified: Azure Administrator Associate Link
- Certificate of Completion for 'Applied Data Science Capstone' from Coursera (Apr 2023) Link

POSITIONS OF RESPONSIBILITY

•**Event manager,** RGUKT, Nuzvid *Oct 2020 - June 2023*
Worked as an Event manager for the events like Technical fests, farewell in my college RGUKT NUZVID.