VASHANTH S

Software Engineer

srivashanth5@gmail.com

9003395719 Vashanth

www.vashanth.space

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PROFILE

Always excited to deep dive in to technologies. Like to explain things I learnt through blogs and projects. Believe more in practicality than theory. My interest to design and develop appliactions is what keeping me on the move.

EDUCATION

MBA Finance And Marketing
JAIN UNIVERSITY
Jun 2021 – Oct 2023 | Online

Bachelor in Mechanical Engineering
SSM Institute of Engineering and Technology
2021 – 73.8% | DINDIGUL

H.SC
SSM Matriculation Higher Secondary School
present 61% | dindigul

S.S.L.C
S.M.B.M Matriculation Higher Secondary School
present 82.6% | dindigul

PROFESSIONAL EXPERIENCE

Associate System Engineer
CGI IT AND BUSINESS CONSULTING
Sep 2021 – present | Bangalore, India

- Transformed CI/CD pipelines with GitLab CI/CD, reducing deployment time by 40%.
- Introduced Terraform for IaC, cutting provisioning time by 25%.
- Migrated legacy apps to Docker/Kubernetes, resulting in a 30% server cost reduction.
- Implemented Prometheus/Grafana, minimizing downtime by 20%.
- Engineered AWS multi-region setup achieving 99.99% uptime.
- Optimized cloud costs, reducing expenses by 15%.
- Integrated automated security scans for early vulnerability detection.
- Enhanced incident response, decreasing MTTR by 25%.
- Fostered cross-functional collaboration and agile practices.
- Conducted comprehensive documentation and training for knowledge sharing.

SOFTWARE ENGINEER
TMI
Jun 2020 – Jul 2020 | Dindigul

- Assist in migrating on-premise systems to AWS for scalability and flexibility.
- Configure AWS Aurora databases for high quality and data integrity.
- Developed Python and shell scripts for system automation.
- Collaborated with senior engineers to resolve product issues, increase system performance.

PROJECTS

DevOps Project using Git, Jenkins, Maven, Ansible, Docker & Kubernetes.
CI/CD Project

- The Jenkins server streamlines software program integration (CI), automating build, check, and deployment.
- Maven compiles code and runs checks in CI, then deploys artifacts to Tomcat.
- In CD, Docker creates app box snap shots, deployed on Kubernetes.

SKILLS

Programming and Development:
Python, JavaScript, TypeScript, .NET Core

Cloud Platforms and Services:
Amazon RDS, GCP, Azure Functions, Cloud Dev Strategies

Infrastructure and Automation:
DevOps, Terraform, Docker, Kubernetes (EKS), Jenkins, CD Pipelines

Security and Compliance:
Cloud Security, SRE, TLS, Compliance

Database and Data:
Redis, RDBMS (SQL Server, PostgreSQL), JSON, Open API

System Administration and Monitoring:
Windows/Linux Admin, System Monitoring, Nagios

Software Architecture and Design:
MVC, Technical Design, Dev Methodologies, Config Management

Networking and Protocols:
TCP/IP, DNS Management

Problem-Solving and Analysis:
Analytical Problem-Solving, Debugging, Issue Resolution

Automation and Scripting:
Shell Scripting

Agile Methodologies:
Agile Dev, Project Management, Business Process Understanding

- Ansible automates Docker hosts and Kubernetes clusters. AWS EKS simplifies Kubernetes deployment on AWS.

CLOUD NATIVE MONITORIONG APP

Devops Project

- Designed and constructed a cloud-native monitoring application leveraging microservices architecture.
- Created a scalable and fault-tolerant application using AWS, GCP, and Azure services.
- Employed DevOps practices such as Jenkins and Git for automated deployment and continuous integration.
- Used AWS CloudWatch, GCP Stackdriver, and Azure Monitor to implement real-time monitoring and alerting.
- Redundancy and load balancing methods ensured great availability and reliability.
- Analysed metrics and logs from cloud platforms to troubleshoot and resolve performance issues.
- Worked with cross-functional teams to gather requirements and put new features in place.
- Technical design, implementation details, and operational processes were all documented.
- Regular performance and security audits were performed in order to improve the application's efficiency a

AWS-EC2-PATCH-AUTOMATION

Devops Project

- Amazon Web Services (AWS) was used to create and deploy an effective EC2 patch automation solution.
- Set up continuous integration and deployment pipelines for seamless upgrades to demonstrate experience in DevOps practices.
- To guarantee a seamless implementation process, I collaborated well with cross-functional teams through clear and concise communication.
- Investigated viable alternatives by investigating and assessing Google Cloud Platform (GCP) and Microsoft Azure options for the project.
- Throughout the project lifecycle, dependability was prioritized to ensure that the patch automation solution met the specified service level agreements (SLAs).
- Orchestrated software deployment techniques reduce service downtime and user impact during patching.
- Troubleshooting abilities were demonstrated by identifying and resolving issues that happened during the deployment and automation phases.