

Sumanth Kumar Puvvada

Software Engineer

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📍 Hyderabad

SUMMARY

Results-driven Software Engineer with over 2 years of hands-on experience in AWS infrastructure management, Azure DevOps services and DevOps automation. Proficient in a wide range of DevOps tools including Git, Docker, Jenkins, Kubernetes, Ansible, Terraform, and Linux. Successfully streamlined deployment pipelines, reducing deployment times by 40% and minimizing manual intervention by 60% through automation. Proven track record in collaborating within Agile teams to enhance productivity and efficiency. Skilled in optimizing cloud resources and improving cost-efficiency, achieving up to 25% savings in cloud expenses. Seeking a challenging DevOps role to leverage AWS expertise and drive operational innovation.

EXPERIENCE

Software Engineer

HCLTech

📅 08/2022 - Present 📍 Hyderabad

Web Application Development & Deployment

- Successfully Migrated 6 interconnected web applications from VOLVO to UD, ensuring seamless data exchange between upstream and downstream systems within the manufacturing assembly line, resulting in zero downtime and a 15% increase in data processing efficiency.
- Implemented new features using Visual Studio and deployed applications across 10+ client locations, consistently meeting 100% of client requirements and speeding up deployment by 25%.
- Conducted code reviews and debugging sessions, identifying and resolving 50+ issues, which contributed to a 20% improvement in overall application performance.

DevOps Integration & Automation

- Automated the build process using Azure Build Pipelines to streamline code management and compilation, reducing build errors and improving reliability. This automation led to a 20% decrease in code conflicts and enhanced build consistency, ensuring smoother, dependable builds.
- Established a strategic branching strategy to support parallel development, which minimized code conflicts and facilitated effective collaboration. This approach reduced merge conflicts by 25%, improved code integration, and accelerated release cycles by enabling faster, more predictable releases.
- Implemented Azure Release Pipelines for automated deployments across multiple environments, achieving a 30% reduction in deployment time and increasing deployment accuracy, enabling faster feedback loops and reducing manual intervention.
- Enhanced team collaboration, task tracking, and project visibility using Azure Boards within Agile practices, resulting in a 20% improvement in project delivery timelines and more effective sprint planning and progress tracking.

DevOps Skills Development (Independent Learning)

- Developed and deployed 5+ personal projects using Git for version control, Docker for containerization, Jenkins for CI/CD, Kubernetes for orchestration, Ansible for configuration management, and terraform for infrastructure as code on Linux OS, leveraging AWS services to enhance cloud proficiency and streamline project deployment.
- Gained hands-on experience in core AWS services including IAM, EC2, S3, VPC, and Systems Manager, building secure and scalable environments while optimizing resource management and automation.
- Developed and automated CI/CD pipelines using CodePipeline, CodeBuild, and CodeDeploy, alongside Lambda, ECS, and EKS for serverless and containerized applications.
- Leveraged AWS CLI and CloudFront for efficient deployments, resulting in faster release cycles, improved scalability, and a 40% reduction in manual deployment time.

EDUCATION

Bachelor of Technology in Electronics and Communication

Jawaharlal Nehru Technological University

📅 06/2018 - 06/2022 📍 Kakinada 8.7 CGPA

ACHIEVEMENTS

- Awarded the ERS Champion Award at HCLTech for exceptional performance and contributions over a 2-year tenure, recognized for driving key initiatives and delivering high-impact results.
- Honored with the Employee of the month Award for outstanding teamwork and active collaboration, consistently enhancing team dynamics and productivity.

SKILLS

Linux	Shell-scripting (Bash)	Git & GitHub	Jenkins	Docker	Kubernetes	Terraform
Ansible	AWS EC2	AWS IAM	AWS S3	AWS VPC	AWS code commit	
AWS Code Pipeline		AWS ECS	AWS EKS	Azure Repo	Azure Pipelines	

CERTIFICATIONS

- Python Programming certificate by GUVI
- GitHub Foundations Certificate by GitHub
- Agile Methodologies in software development certificate by Skill Soft
- Prompt Engineering Techniques certificate by Skill Soft
- AngularJS Certificate by Hacker Rank

LANGUAGES

Telugu	Native	English	Proficient	Hindi	Intermediate
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PROJECTS

UD TRUCKS

📅 09/2022 - Present 📍 Japan

- Served as a consultant for UD TRUCKS, a Japanese company, developed applications for factory personnel in the manufacturing assembly line of trucks and cabs, resulting in a 25% increase in operational efficiency and a 15% reduction in production errors.
- Automated the entire application lifecycle starting from code management to production deployment using Azure DevOps pipelines (Boards, Build, Release) and strategic branching, cutting deployment time by 30% and decreasing code conflicts.
- Enhanced team collaboration, task tracking, and project visibility by implementing Agile practices with Azure Boards, improving project delivery timelines by 20%.

Tools and Skills: Visual Studio, MS SQL Server, ASP.NET, ASP.NET MVC, Microsoft AZURE DevOps Services, Azure Build Pipeline, Azure Release Pipelines, Azure Boards, SQL.

Automated CI/CD Pipeline for Web Applications (Python, Django, Node.js, React) - [Link](#)

- Designed and implemented a CI/CD pipeline using Jenkins and GitHub webhook triggers, achieving seamless integration and delivery, accelerating deployment by 40% and increasing deployment frequency by 50%.
- Automated critical tasks including code checkout, dependency installation, test execution, code quality analysis with SonarQube, dependency scanning with OWASP, application builds, Docker container creation, image scanning with Trivy, and deployment to VMs or Kubernetes clusters using Argo CD (GitOps), resulting in a 35% enhancement in deployment performance and security.

Tools and Skills: CI/CD pipeline, Jenkins, GitHub webhook trigger, Docker, Kubernetes, Argo CD, SonarQube, Trivy CI/CD

Infrastructure Provisioning with Terraform (AWS) - [Link](#)

- Automated infrastructure provisioning by creating a complete infrastructure stack for a web application on AWS using Infrastructure as Code (IaC), bringing setup time to almost 0.
- Structured and organized infrastructure code using Terraform Modules, enhancing code reusability and maintainability.
- Provisioned critical resources including VPC, Subnets, IGW, Route Tables, Routes, Security Groups, Ingress and Egress rules, EC2 instances, Load Balancer, and Target Group, resulting in a 30% boost in deployment effectiveness and security compliance.

Tools and Skills: Terraform, Iac, AWS, Networking, Nginx

Configuration Management with Ansible Playbooks and Roles (Linux) - [Link](#)

- Explored configuration management using Ansible playbooks and roles, enhancing system automation capabilities.
- Automated system configuration tasks such as installing packages, web servers, user management, and enabling ingress and egress rules on Linux systems, reducing manual configuration time by 50%.
- Developed an Ansible role to deploy applications on Apache servers, streamlining deployment processes and improving deployment consistency by 40%.

Tools and Skills: Ansible, Configuration Management, Linux.