DHANA VEERAMACHANENI

+1 (812) 558-8470 | dhanalakshmi.vnvudl@gmail.com | Dallas, TX, USA | linkedin.com/in/dhana-veeramachaneni

SKILLS

Cloud Technologies: AWS, Google Cloud Platform, Microsoft Azure, Kubernetes, Terraform, Docker, IAM, EC2, S3, VPC, ELB
Programming and Scripting: Python, YAML, JSON, Bash, Shell Script, PowerShell, Groovy, Java, Go
Development Tools and Environments: Visual Studio, VS Code, PyCharm, JetBrains, JIRA, SQL Developer, Confluence, Toad
Software Development Methodologies: Agile, Scrum, SDLC, CI/CD
Testing and Quality Assurance: Selenium, Azure DevOps Test Plans, SonarQube, Trivy
Version Control: Git, BitBucket, Azure DevOps Repos, GitOps, ArgoCD
Database Management: MySQL, Postgres, Liquibase, Snowflake, GoldenGate
Monitoring and Configuration Management: CloudWatch, Datadog, Grafana, Prometheus, Chef, Ansible, Informatica, Puppet

PROFESSIONAL EXPERIENCE

Enterprise Management Systems **Dallas, TX, USA**
Senior DevOps Engineer - Infrastructure *November 2024 - Present*

- Assessed the existing environment and developed a tailored migration strategy, designing and implementing AWS cloud infrastructure and architecture, including VPCs, subnets, security groups, IAM roles, and policies to optimize scalability, security, and operational efficiency.
- Led the migration of critical banking applications from on-premises to AWS Cloud, leveraging containerization for efficient deployment and managing source code repositories to ensure version control, seamless transition, and secure data transfer.
- Integrated Unix-based systems with AWS ECS to support containerized workloads, ensuring seamless deployment, high availability, and efficient resource utilization.
- Deployed and managed K8s clusters using Amazon EKS, ensuring scalability and high availability while leveraging ArgoCD for continuous deployment automation, maintaining version-controlled releases, and streamlining the application deployment lifecycle.
- Implemented AWS Lambda and CLI-based automation scripts to streamline operational workflows, automate deployments, and reduce manual intervention.
- Migrated databases using AWS DMS and native tools, implementing real-time replication, validating data consistency, and achieving 100% accuracy post-migration.
- Deployed and optimized application servers on Amazon Web Services (AWS) EC2 and Elastic Beanstalk, integrating Prometheus, Grafana, and Elasticsearch to enhance observability, enable advanced log analytics, monitor performance, and ensure scalability.
- Designed and configured load balancing solutions using ALB and NLB, optimizing traffic distribution and fault tolerance in an IaaS environment.
- Implemented Amazon CloudFront as a global content delivery network (CDN) to accelerate static and dynamic content delivery, reduce latency, and improve user experience for globally distributed users.
- Conducted end-to-end testing and implemented autoscaling policies, ensuring high availability and reducing post-migration cloud costs by 20%.

Inovalon **Dallas, TX, USA**
Senior DevOps Engineer *June 2022 - November 2024*

- Led lift-and-shift migrations and re-architecting efforts to transition applications from on-premises to AWS, ensuring minimal downtime and secure data transfer.
- Rearchitected legacy agents, services, applications from Google Cloud (GCP) and Azure to AWS, Apache Kafka for real-time data streaming, Infrastructure-as-Code (IaC) to ensure secure, scalable, and efficient transitions.
- Migrated databases from on-premises to Oracle Cloud Infrastructure (OCI) and AWS RDS, leveraging native and third-party tools to ensure real-time replication, data integrity, and zero data loss while optimizing performance and scalability.
- Utilized AWS cloud services such as EC2, S3, IAM, and ELB to design and deploy scalable, secure, and accessible architectures for cloud-based microservices, leveraging Helm to simplify Kubernetes deployment and management.
- Transitioned to AWS PaaS/SaaS solutions including Beanstalk, RDS, ElastiCache, and Active MQ using infrastructure as code, streamlined scalability and reduced operational costs by 25%.
- Configured Amazon Certificate Manager with Application Load Balancer to secure endpoints and optimize traffic management for critical applications.
- Configured and deployed APIs using Azure API Gateway, ensuring secure, scalable solutions with versioning and tagging for better management.
- Developed CI/CD pipelines using Jenkins and Maven to automate artifact creation and deployment to Amazon S3, enabling seamless integration with EC2-hosted Tomcat servers.

- Enhanced Jenkins and Azure DevOps pipelines with API testing via Postman and implemented validation checks with automatic rollbacks to improve pipeline stability and reduce downtime by 30%.
- Used Datadog, Power BI, and Tableau for real-time performance monitoring, system insights, and the creation of dashboards for reporting and transparency.
- Collaborated closely with the team throughout the SDLC using pair programming and Agile methodologies, ensuring HIPAA compliance while developing and deploying solutions. Provided training on tools like CI/CD, Terraform, and data visualization to enhance project efficiency, maintain security standards, and facilitate effective knowledge sharing.

Mastercard Foundation **Pune, MH, India**
DevOps Engineer *January 2020 - December 2020*

- Configured AWS services such as IAM for secure user access, EC2 instances for computing power, and S3 for storage. Managed cloud resources to optimize cost and performance while maintaining security standards.
- Installed, configured, and managed Jenkins on Linux machines, ensuring smooth operation for continuous integration and delivery pipelines. This involved optimizing build processes, troubleshooting issues across different operating systems, and ensuring compatibility with various environments.
- Set up Docker containers and created Dockerfiles for various development and production environments, ensuring consistency and portability. Managed containerized applications to support development workflows.
- Integrated Jenkins with Docker and AWS plugins to automate the provisioning and management of cloud resources. Administered user accounts and roles on MySQL and SQL servers, ensuring proper access control.
- Implemented infrastructure as code using AWS CodePipeline and Terraform, creating and managing cloud resources through version-controlled templates while integrating serverless architectures to enhance scalability and reduce operational overhead.
- Designed and implemented Single Sign-On (SSO) solutions using OAuth 2.0, SAML, and Okta, enabling secure, centralized authentication across multiple applications and streamlining user identity management.
- Updated the AMI to comply with Mastercard's security and compliance requirements, configuring firewall and network rules. Automated the deployment using CloudFormation for consistent, compliant, and secure setups across the environment.
- Automated server deployment using automation tools like Chef and Ansible, enabling rapid scaling of infrastructure to meet demand. Developed scripts and configurations to streamline the deployment process by 40%.
- Coordinated with hardware engineers and clients to execute real-time server swaps per the change management schedule, ensuring minimal downtime. Provided guidance throughout the process to maintain stability and resolve any issues quickly.

Wipro Technologies **Chennai, TN, India**
Project Engineer - Site Reliability *August 2017 - December 2019*

- Applied SRE principles to proactively enhance system reliability, leveraging Root Cause Analysis to identify and resolve issues while ensuring GDPR compliance.
- Collaborated with development, testing, deployment, and infrastructure teams to ensure continuous operation of build and test systems throughout the software development life cycle (SDLC), following Agile practices.
- Managed various AWS resources, including EC2, S3, IAM, and ELB, leveraging cloud computing principles to optimize scalability, security, and performance while streamlining cloud operations using the AWS API.
- Handled and managed Docker containers to support development and deployment processes efficiently.
- Implemented a new process in Jenkins to automatically create Docker containers for each GitHub branch, enhancing continuous integration by 30%.
- Created Chef cookbooks to streamline processes and improve efficiency, reducing manual tasks and workflows by 50%.
- Integrated Redis for caching solutions in applications, significantly reducing database load and improving response times, contributing to overall system efficiency.
- Wrote Python scripts to automate tasks and manage AWS resources, making cloud management more efficient.
- Automated provisioning and repetitive tasks using Terraform and Python, simplifying infrastructure management.

CERTIFICATIONS

HashiCorp Certified: Terraform Associate – HashiCorp
AWS Cloud Technical Essentials – Amazon Web Services (AWS)
Continuous Delivery & DevOps – University of Virginia, Darden School of Business

EDUCATION

Indiana University - Bloomington **January 2021 - May 2022**
Master's, Computer Science *GPA: 4*

GVP College of Engineering **September 2013 - May 2017**
Bachelor's, Computer Science *GPA: 4*