

## Manideep Chittineni

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### Education

#### University of the West of England

Bristol, UK

Master of Science, Major in Information Technology

Nov 2021

Coursework: Machine Learning and Predictive Analysis, Big Data, Digital Design and Development, Information Security, Project Management

#### VNR Vignana Jyothi Institute of Technology

Hyderabad, India

Bachelor of Technology in Electronics and Instrumentation Engineering

Aug 2015 – May 2019

### Experience

#### University of Exeter

Exeter, UK

DevOps Engineer

Oct 2022 – Present

- Architected and deployed multi-tier, cloud-native applications on AWS, supporting 50,000+ users and achieving 99.99% availability.
- Reduced infrastructure costs by 45% through strategic utilization of AWS Reserved Instances and Spot Instances.
- Designed and implemented robust CI/CD Pipelines using AWS CodePipeline and CodeBuild, accelerating release cycles by 40% and enabling zero-downtime deployments.
- Automated infrastructure provisioning with Terraform and AWS CDK, reducing setup time by 50% and ensuring consistent environments across development, staging, and production.
- Enhanced security posture by integrating AWS Security Hub, IAM, and KMS, mitigating 100% of identified vulnerabilities and ensuring compliance with GDPR standards.
- Optimized content delivery leveraging AWS CloudFront, Route53, and API Gateway, reducing latency by 30% for global users.
- Designed and applied a comprehensive disaster recovery strategy with an RPO of less than 1 hour and RTO of less than 4 hours across 3 AWS regions.
- Orchestrated containerized workloads on AWS EKS and Fargate, improving scalability and reducing operational overhead by 20%.
- Enforced advanced observability with Datadog and Prometheus, reducing Mean Time to Detection (MTTD) by 35% through proactive alerting and dashboards.
- Established a GitOps workflow using Terraform and GitHub Actions, reducing infrastructure provisioning time by 60%.
- Automated security compliance scanning, reducing security vulnerabilities by 85% and achieving SOC 2 Type II certification.
- Developed and applied auto-scaling policies that dynamically adjusted capacity based on demand, reducing over-provisioning by 35%.
- Created Infrastructure as Code (IaC) templates covering 100% of AWS resources, effectively eliminating configuration drift.
- Led cross-functional teams in agile sprints, mentoring 5+ engineers and driving the adoption of DevOps best practices.

#### Procadence Technologies Limited

Brentford, UK

DevOps Engineer

Apr 2021 – Sep 2022

- Built end-to-end CI/CD pipelines on GCP using Cloud Build and Jenkins, serving 15+ development teams, reducing deployment frequency from weekly to daily and improving developer productivity by 50%.
- Implemented an automated testing framework, achieving 95% code coverage and reducing production bugs by 70%.
- Created a self-service deployment platform, empowering developers to deploy independently and increasing team velocity by 200%.
- Architected scalable microservices on Google Kubernetes Engine (GKE), achieving 99.9% uptime and

supporting 10,000+ daily active users.

- Automated infrastructure provisioning with Terraform and GCP Deployment Manager, cutting provisioning time by 60% and enabling disaster recovery in under 5 minutes.
- Architected and enhanced GKE clusters with advanced networking, security policies, and resource optimization, serving 200+ microservices.
- Implemented horizontal pod autoscaling and cluster autoscaling, optimizing resource utilization by 85%.
- Established comprehensive container security scanning and compliance policies, achieving zero critical vulnerabilities in production.
- Strengthened security posture with GCP IAM and network policies, achieving 100% compliance with organizational security standards.
- Documented critical processes in Confluence, creating a robust knowledge base that reduced onboarding time for new engineers by 50%.

## **Procadence Technologies Limited**

Brentford, UK

Software Engineer Intern

Jun 2020 – Mar 2021

- Contributed to the development and optimization of CI/CD pipelines using Azure DevOps, enabling automated testing and deployment for 3+ enterprise applications.
- Deployed and enhanced scalable applications on Azure Virtual Machines and Azure SQL, contributing to a 15% improvement in application performance.
- Automated infrastructure tasks with ARM templates, reducing manual configuration efforts by 45%.
- Monitored application health with Azure Monitor and Application Insights, proactively identifying and resolving 90% of performance bottlenecks within SLA timelines.
- Contributed to documentation and knowledge sharing initiatives, streamlining team workflows and reducing technical debt.
- Collaborated on Azure-based CI/CD pipelines serving 5 development teams, improving deployment reliability by 40%.
- Enforced robust monitoring solutions that provided 360-degree visibility into application performance.
- Authored and maintained 20+ runbooks and operational procedures, significantly improving team knowledge sharing and onboarding efficiency.

## **Skills**

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- **Programming Languages:** Python, Java, C, HTML, CSS, JavaScript, Node.js, Bash Scripting
- **Cloud Technologies:** AWS, Azure, GCP, Oracle
- **Containerization & Orchestration:** Docker, Kubernetes, Helm
- **Infrastructure as Code (IaC):** Terraform, Terragrunt, Pulumi, AWS CloudFormation, Azure Resource Manager (ARM) templates, Google Cloud Deployment Manager.
- **Configuration & Provisioning Tools:** Ansible, Chef, Puppet
- **Monitoring Tools:** Datadog, Dynatrace, Grafana, Prometheus, AWS CloudWatch, Azure Monitor, Google Cloud Monitoring
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Version Control & CI/CD:** Git, GitHub, GitLab, Bitbucket, GitHub Actions, Jenkins, Circle CI, Travis CI

## **Certifications**

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- AWS Certified Solutions Architect – Associate
- AWS Certified Developer – Associate
- AWS Certified AI Practitioner
- Google Cloud Platform Associate Cloud Engineer
- Microsoft Azure Fundamentals – AZ 900
- Microsoft Azure AI Fundamentals – AI 900
- Oracle Cloud Infrastructure Developer 2020 Certified Associate
- Oracle Cloud Infrastructure 2019 Certified Cloud Operations Associate