

Kirthikesh Parthasarathy

DevOps Engineer | Site Reliability Engineer | Cloud Engineer

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PROFESSIONAL SUMMARY

DevOps and Cloud Engineer with over **3 years** of comprehensive experience in automating build and release processes, managing **cloud infrastructures**, and performing advanced Linux system administration. Demonstrated expertise in **AWS** and **Azure**, with a strong focus on infrastructure automation using **Ansible** and **Terraform**. Experienced in building and maintaining **CI/CD pipelines** with **Jenkins**, and proficient in monitoring and optimising systems with **Zabbix**, **Nagios**, **Prometheus**, and **Grafana**. Skilled in scripting with **Bash**, **Python**, and adept at container orchestration using **Docker** and **Kubernetes**. Proven experience in building and maintaining **machine learning pipelines**, integrating **ML models** into production environments to ensure scalable and reliable **AI solutions**. Committed to delivering high-uptime, cost-efficient solutions in dynamic environments. Seeking a **challenging role** to leverage my skills in a dynamic environment.

Skills

- **Cloud Providers:** AWS, Azure (Cloud Architecture, Management, Migration, Cost Optimization)
- **Containerization & Orchestration:** Docker, Kubernetes
- **CI/CD & DevOps:** Jenkins, GitHub Actions
- **Scripting & Automation:** Bash, Python
- **Infrastructure as Code (IaC):** Terraform, CloudFormation, Ansible
- **Web Servers:** Nginx, Apache, OpenLiteSpeed
- **Security & Networking:** AWS IAM, Amazon VPC
- **Databases:** MySQL, MongoDB
- **Version Control:** Git, GitHub
- **Linux/Unix Systems:** CentOS, Red Hat, Ubuntu
- **Monitoring & Logging:** AWS CloudWatch, AWS CloudTrail
- **Hosting & Control Panels:** cPanel, CWP
- **Billing & Automation:** WHMCS

Professional Experience

Velocity Global Solutions

DevOps Engineer, Hybrid

April 2021–Sept 2023

Bangalore, India

- Managed a fleet of 40+ instances spanning Google Compute Engine, GKE, Cloud Storage, Cloud SQL, and BigQuery, achieving a 99.9% uptime through the design and implementation of robust and fault-tolerant architectures.
- Significantly reduced deployment timelines by 60-70% through the automation of cloud service deployments, application rollouts, patching/updating, and configuration adjustments using Ansible, Terraform, and Bash scripting.
- Worked extensively with Helm and Kubernetes YAML configurations and Docker for streamlined management and deployment of containerized services (micro-services).
- Proactively monitored and addressed infrastructure issues, leveraging cloud monitoring tools, Prometheus, and Grafana to ensure uninterrupted service availability.
- Realized a substantial decrease in infrastructure maintenance expenses by 30-40% through thorough resource analysis, proactive monitoring, optimization strategies, and the implementation of cost-cutting initiatives.
- Established CI/CD pipelines utilizing Jenkins to facilitate rapid development, deployment, and upkeep of Kubernetes/Docker-powered services.
- Orchestrated seamless data synchronization between on-premises and cloud data repositories through Google BigQuery connections.
- Successfully led and implemented AI/ML projects from ideation to production, ensuring models were evaluated and maintained effectively.

Velocity Global Solutions

DevOps Engineer, Remote

Jan 2024–April 2024

Bangalore, India

- Administered AWS & Azure hosted infrastructure with a focus on achieving 99.9% server uptime.
- Implemented and maintained CI/CD pipelines utilizing Jenkins to streamline application deployment.
- Automated infrastructure operations through Terraform and CloudFormation, improving deployment consistency and reducing manual errors.
- Monitored server, service, and resource health using Nagios, Zabbix, Prometheus, and Grafana to ensure system reliability.

- Supervised and sustained production, staging, and development environments, ensuring continuous availability and operational stability.
- Demonstrated scripting and automation expertise in Bash and Python, contributing to efficient process management.
- Provided developer support in deploying services leveraging Docker, Kubernetes, Bash, Python, Nginx, and Rundeck.
- Implemented SRE principles to enhance system reliability and resilience, including error budgeting, service level objectives (SLOs), and incident response practices.
- Conducted blameless post-incident reviews (PIRs) to analyze system failures, identify root causes, and implement preventative measures in alignment with SRE best practices.
- Collaborated cross-functionally to establish and refine service level indicators (SLIs), ensuring alignment between business objectives and reliability goals within an SRE framework.

Education

Anna University

Bachelor of Science in Computer Science

Aug 2018 – June 2022

Chennai, Tamil Nadu, India

National College of Ireland

MSc in Cloud Computing

Sept 2022 – Feb 2024

Dublin, Ireland

Projects

JOB PORTAL WEB APPLICATION USING CLOUD AWS | *Django, AWS Services*

July 2022

- Developed a Django-based job platform for employers to post positions and applicants to apply.
- Integrated 7 AWS services to improve functionality and scalability, including EBS, RDS, S3, SNS, SQS, AWS Lambda, and Cloud9.
- Designed the web app with different user roles (applicants, companies, admin), incorporating features for registration, login, job management, and admin tasks.
- Employed Cloud9 as an integrated development environment to streamline testing, reduce local setup times by over 50%, and enable real-time developer communication for faster troubleshooting.

E-COMMERCE WEB APPLICATION | *JavaScript, Node.js, AWS Services*

March 2023

- Created an e-commerce platform with a Node.js backend and JavaScript frontend, providing 4 type of products and services for online purchase.
- Integrated comprehensive shopping cart functionality into the application that allowed customers to manage up to 10 items simultaneously
- Deployed AWS services to build a scalable and resilient e-commerce architecture, leading to a 70% reduction in server downtime during peak shopping periods across four different product lines.

Certification

- **2024 - Microsoft Certified: Azure Administrator Associate - Microsoft**