Amol Sontakke

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Education

Rajiv Gandhi Institute of Technology   August 2015 – June 2021
Bachelor of Engineering in Mechanical Engineering   *Bengaluru, Karnataka, India*

Experience

Samyojaka Software (OPC) Private Limited   July 2023 – August 2024
Junior DevOps Engineer   *Bengaluru, Karnataka*

- **Streamlined deployment time by 40%** by optimizing **CI/CD pipelines** in **Jenkins and Bitbucket** for faster and more efficient software releases.
- **Ensured 99.95% uptime** by managing **containerized microservices** on **Kubernetes clusters**, improving reliability and scalability.
- **Automated 60% of infrastructure provisioning** and configuration using **Ansible and Terraform**, decreasing manual effort by **50%**.
- **Reduced issue resolution time by 40%** by deploying **EFK Stack and Prometheus** for **log monitoring and application performance tracking**.
- **Optimized MySQL and MongoDB databases**, enhancing **query performance by 25%** and ensuring **data consistency** across deployments.
- Conducted **Proof of Concepts (PoCs)** for **5+ new DevOps tools**, improving **workflow automation by 35%** and documenting **best practices** to enhance team knowledge sharing.

Sigmoid Analytics   February 2023 – June 2023
DevOps Intern   *Bengaluru, Karnataka*

- Built **CI/CD automation** with **Jenkins and Bitbucket**, reducing release cycle time by **50%**.
- Wrote **Python and Shell scripts** for automating infrastructure tasks and monitoring system performance.
- Integrated **log management** using **EFK Stack**, reducing debugging time by **40%**.
- Assisted in configuring **JIRA workflows** for efficient project tracking.
- Explored GitOps workflows using **ArgoCD** for seamless **Kubernetes** application delivery.

Projects

Everest-Fleet | *Python, Django, Node.js, Amazon Web Services*

- Deployed microservices on **AWS ECS/EKS**, ensuring **99.9% uptime**.
- Deployed and operated applications on **AWS Elastic Container Service (ECS)**, achieving **99.95% service availability** and reducing deployment times by 50% through efficient **auto-scaling strategies**.
- Configured and managed **CI/CD pipelines** using **Jenkins** and **AWS CodePipeline**, automating **90% of build, test, and deployment workflows**, leading to a **30% faster release cycle** and fewer production issues.
- Implemented centralized monitoring by integrating **Prometheus** for metrics collection and **Grafana** for visualization with custom dashboards.
- Configured **EFK stack** (**Elasticsearch**, **Fluentd**, **Kibana**) for centralized log management, improving log search and analysis efficiency by **50%**.
- Configured **Alertmanager** for proactive notifications, reducing incident response time by **35%**.

Koo | Python

- Deployed **Python-based microservices** to a **Kubernetes cluster** using **Helm**, improving deployment efficiency by **40%**, reducing manual intervention, and ensuring **99.9% uptime** through automated **release management**.
- Established **Continuous Integration and Continuous Deployment (CI/CD) pipelines**, automating **95% of build, test, and deployment processes**, leading to a **50% reduction in release cycle time** and improving deployment success rates.
- **Streamlined cloud infrastructure** provisioning with **Terraform**, reducing manual setup efforts by **70%**.
- **Implemented infrastructure** version control and **remote backend (S3 + DynamoDB)**, enhancing team collaboration efficiency by **50%**.
- **Enhanced application deployments** and **server configurations using Ansible, reducing deployment time by 60%.**
- **Developed idempotent playbooks** to ensure consistent environment setup across **dev, staging, and production**.

Streamoid Technologies | Networking

- Maintained **on-premises IT infrastructure**, managing **50+ servers, storage systems, and network components**, ensuring **99.9% system uptime**.
- Utilized **Zabbix** to track performance, identify **bottlenecks 30% faster**, and reduce **system downtime by 40%** through real-time issue resolution.
- Collaborated with **cross-functional teams** to integrate **3+ new technologies**, plan **major system upgrades**, and support organizational **IT initiatives**, enhancing **infrastructure efficiency**.
- **Ensured 99.95% uptime** by managing **containerized microservices** on **Kubernetes clusters**, improving reliability and scalability.
- Configured and managed **CI/CD pipelines** using **Jenkins** automating **90% of build, test, and deployment workflows**, leading to a **30% faster release cycle** and fewer production issues.
- Provisioned **Jaeger** tracing across microservices, improving visibility into service-to-service communication by **65%**.
- Optimized request flows by **identifying bottlenecks** in distributed transactions, **improving application performance** by **30%**.
- **Integrated Jaeger** with **Prometheus** and **Grafana**, achieving end-to-end observability and **reducing debugging time** by **50%**.

Technical Skills

Languages: Python, Bash, YAML
Developer Tools: VS Code, Amazon Web Services
Containerization & Orchestration: Docker, Kubernetes
Databases and Storage: Oracle SQL, MySQL, RDS, MongoDB, Elasticsearch
Operating Systems: Linux
Web Development: Django, HTML, CSS
Web Servers & Networking: Nginx
Technologies/Frameworks: Django, GitHub
Monitoring: Grafana, Prometheus, Kibana
Project Management Tools: Jira
Infrastructure as Code (IaC): Terraform, Ansible
AWS Services:

- **Compute and Networking:** EC2, VPC, Route 53
- **Storage and Databases:** S3, EFS, EBS, RDS
- **Container Services:** EKS, ECS
- **Serverless:** AWS Lambda
- **Monitoring and Security:** CloudWatch, KMS
- **Messaging and Queueing:** SNS, SQS

Certificate

Python Full Stack Web Development