Shubham Patil

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EDUCATION

The University of Texas at Dallas   **Aug 2022 - May 2024**
Master of Science in Information Technology and Management
Coursework: OOP Python, Database Management, Cloud Computing, System Analysis

Savitribai Phule Pune University   **Jun 2016 - May 2021**
Bachelor of Engineering in Computer Engineering
Coursework: Data Structures, Algorithms, Operating System, Distributed Systems

EXPERIENCE

Cloud Engineer, Changing the Present   **Sep 2024 - present**
- Led cloud-based migration of over 500 user mailboxes to MXRoute, using **IMAP** synchronization tools and cloud-based automation.
- Deployed DNS records (MX, SPF, DKIM, DMARC) via Amazon **Route 53**, reducing phishing and spoofing incidents by 98%.
- Designed robust CI/CD pipelines using **Jenkins**, ensuring seamless integration and continuous delivery of software applications.
- Employed configuration management tool such as Ansible to automate server provisioning, configuration and orchestration, achieving consistency and reducing manual errors by 20%.
- Collaborated effectively with development and operations teams in Agile/Scrum environments to drive DevOps culture, improve workflows and ensure high-quality software releases.

Associate Cloud Engineer, Balasai Net Pvt Ltd   **Sep 2021 - Aug 2022**
- Conducted AWS Well-Architected reviews, boosting system **efficiency by 15%**, notably reducing latency by 30% for a healthcare client, enhancing data processing speed through right sizing, saving plans and reserved instances.
- Engineered a robust Disaster Recovery setup using CloudEndure (**AWS DRS**) with 50TB of data, ensuring 99.9% recovery success rate, bolstering disaster preparedness and business continuity for a global logistics company.
- Containerized applications with **Docker**, enabling scalability across development, testing, and production environments.
- Set up secure CI/CD pipelines with **GitLab**, **Trivy**, and **Argo CD** to automate vulnerability scans and deployment, reducing failures and ensuring compliance in production environments.
- Laid out **ELK Stack** for log aggregation and analysis, enabling proactive troubleshooting and reducing mean time to resolution by 30%.
- Implemented monitoring solutions using **Prometheus and Grafana** to detect and resolve critical system issues, reducing incident resolution time by 40% through real-time alerts and actionable dashboards.

Cloud Engineer Intern, Softman Consultancy Services   **Jun 2021 - Sep 2021**
- Maintained **Python and Bash scripts** to automate daily AWS CloudWatch log analysis, reducing issue detection time by 30% and streamlining CI/CD processes for faster troubleshooting across multiple environments.
- Enhanced security with **AWS IAM**, enforcing least privilege access across 50+ AWS resources, leading to zero security incidents.
- Automated **AWS EC2** and **Lambda scaling**, optimizing resource use by 30% and saving $100,000 annually through auto-scaling policies.
- Tracked **Linux** server health with Nagios, tracking CPU and memory usage to detect throughput issues, narrowing downtime by 20%.

PROJECTS

Cloud Migration of Health Testing Platform | Link | *AWS, GKE, Terraform, AWS CLI, Kubernetes, AWS S3*
- Effected API services and ran **Terraform** main file to setup **AWS environment**, MySQL database and Kubernetes Engine.
- Migrated an on-premise web application to GCP with AWS storage, resulting in 15% cost reduction, utilized **GCP Cloud Shell** to upload **SQL database** tables and Docker packages, configured Cloud Build API, and deployed the Docker image to **Kubernetes**.

Cloud Native Web Application | Link | *Pulumi, GitHub Actions, Lambda, AWS, RDS, EC2*
- Created a cloud-native web app with optimized EC2 setups and **Pulumi IaC**, reducing deployment time by 30%.
- Orchestrated AWS deployment of the application using EC2 and RDS, securing configurations and implementing **GitHub Actions** to streamline CI/CD workflows for a 25% improvement in deployment efficiency.

Monitoring Infrastructure in AWS | Link | *EC2, IAM, AWS CloudWatch, AWS CloudTrail*
- Configured AWS **CloudWatch** and **CloudTrail** to monitor performance, track security events, and send real-time alerts via SNS.
- Enforced CloudWatch Alarms, centralized log management and created dashboards for real-time performance and resource optimization.

TECHNICAL SKILLS

- **Programming Languages**:   Python, SQL, Bash Scripting
- **Cloud Technologies**:   AWS, GCP, Docker, Kubernetes
- **DevOps & CI/CD Tools**:   Linux, GitLab, GitHub, Terraform, Jenkins, Argo CD, Ansible
- **Monitoring & Logging**:   Prometheus, Grafana, CloudWatch, ELK Stack

CERTIFICATIONS

- AWS Solutions Architect Associate, AWS Cloud Practitioner, Certified Jenkins Engineer
- Aviatrix multi-cloud, cPanel/WHM Administrator, Azure Fundamentals