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, AWS Cloud Computing, IAM.

Savitribai Phule Pune University   **Jun 2016 - May 2021**
Bachelor of Engineering in Computer Engineering
Coursework: Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Distributed Systems.

EXPERIENCE

Cloud Engineer, Changing the Present   **Sep 2024 - present**
- Led the 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%.
- Supervised **DNS** and **TLS certificates** through Cloudflare, ensuring 100% secure microservices connections.
- Established **Amazon SNS** alerts during migration and set up **AWS SES** for failover email continuity to ensure uninterrupted communication.

Associate Cloud Engineer, Balasai Net Pvt Ltd   **Sep 2021 - Aug 2022**
- Conducted two AWS Well-Architected reviews, boosting system **efficiency by 15%** and slashing costs, notably reducing latency by 30% for a healthcare customer, enhancing patient data processing speed.
- 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.
- Performed cost optimization strategies, achieving **30% cost reductions** through right sizing, savings plans, and reserved instances.
- Set up secure CI/CD pipelines with **GitLab**, **Trivy**, and **ArgoCD** to automate vulnerability scans and deployment, reducing failures and ensuring compliance in production environments.
- Monitored Kubernetes performance using **Prometheus** and **Grafana** to track latency, error rates, and resource usage, enabling early bottleneck detection and reducing downtime by 20%.

Cloud Engineer Intern, Softman Consultancy Services   **Jun 2021 - Sep 2021**
- Developed **Python scripts** to automate daily AWS CloudWatch log analysis, reducing issue detection time by 30% and streamlining error reporting for faster troubleshooting across multiple environments.
- Enhanced security with **AWS IAM**, enforcing least privilege access across 50+ AWS resources, leading to zero security incidents and 15% improvement in access control efficiency.
- 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, reducing server downtime by 20%.

PROJECTS

Cloud Migration of Health Testing Platform | [Link] | *AWS, GKE, Terraform, AWS CLI*
- 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 CloudShell** to upload **SQL database** tables and Docker packages, configured **Kubernetes**, enabled Cloud Build API, and deployed the Docker image to Kubernetes.

Static Website Deployment via Terraform | *AWS CloudFront, Route 53, IAM*
- Streamlined deployment by configuring Jenkins pipelines to trigger Terraform on code commit, reducing deployment time by 25%.
- Provisioned AWS resources with Terraform, including S3 for state file storage and **DynamoDB** for state file locking.

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

TECHNICAL SKILLS

- **Programming Languages**:   Python, SQL, Shell Scripting
- **Cloud Technologies**:   AWS, GCP, Docker, Kubernetes
- **DevOps & CI/CD Tools**:   Linux, GitLab, GitHub, Terraform, Jenkins, Argo CD
- **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