MONIL SHAH

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SUMMARY

AWS Certified Solutions Architect with experience in building and managing cloud infrastructure. Skilled in automating deployments using AWS CLI, Terraform, and shell scripting, while implementing IAM security and Auto Scaling. Proficient in Python, JavaScript, and Node.js for cloud-based applications with CI/CD pipelines.

TECHNICAL SKILLS

- **Programming Languages**: Python, JavaScript, C, Java, R, Bash.
- **Databases and DevOps tools**: MySQL, RDBMS, Docker, AWS CloudFormation.
- **Cloud Platforms**: AWS (EC2, S3, IAM, VPC, CloudWatch), AWS CLI, Terraform (IaC), Linux.
- **Libraries & Tools**: Pandas, NumPy, FastAPI, Git, GitHub, WireShark, Visual Studio Code.

WORK EXPERIENCE

Teaching Assistant   Jan 2024 - Present

Illinois Institute of Technology, Chicago, IL

- Assisted in teaching ITM 705 (Microsoft OS), ITM 706 (Linux OS), ITM 707 (OS Security), and ITMO 540 (Data Networks).
- Graded assignments, provided feedback, and clarified student doubts.
- Conducted office hours to assist students with operating systems and security principles.

Cloud & DevOps Intern   Jan 2023 - May 2023

Bliss Web Solutions, India

- Supported deployment and management of **5+** client websites using Linux servers, focusing on performance optimization and secure configurations.
- Assisted in setting up CI/CD pipelines using Git and shell scripting for automated code deployment and version control.
- Automated routine operational tasks like server health checks, log monitoring, and backup scheduling using Bash scripts.
- Collaborated with the development team to troubleshoot web server issues, optimize website load speed, and ensure smooth release processes.

PROJECTS

AWS Infrastructure Automation

- Automated the deployment and teardown of cloud-native environments on AWS using Bash, AWS CLI, and Python (Boto3).
- Created and managed EC2 instances, RDS databases, S3 buckets, and SNS topics through infrastructure-as-code scripts.
- Developed Python-based validation scripts to verify resource creation, application health, and environment cleanup.

Income Inequality Analysis using R

- Analyzed income disparities using the NLSY97 dataset through data preprocessing, hypothesis testing, and regression modeling.
- Built statistical models in R to examine the impact of gender, education, and background on income levels.
- Created a structured report in R Markdown with visualizations and data-driven insights.

Secrets Management with Vault & WordPress

- Provisioned two Ubuntu VMs using Packer and Vagrant to deploy a Vault server and a WordPress application.
- Secured application secrets using HashiCorp Vault and configured environment-based dynamic retrieval on startup.
- Automated WordPress provisioning via shell scripts and validated Vault integration with live environment variables.

Sunrise & Sunset Time Tracker (Web Application)

- Designed a real-time web application using HTML, CSS, and JavaScript to track sunrise and sunset times.
- Integrated external Geolocation and Geocode APIs to fetch user-specific location data dynamically.
- Developed an interactive dashboard that allows users to search and compare sunrise/sunset timings worldwide.

EDUCATION

Illinois Institute of Technology   Chicago, IL

Master's in Information Technology and Management, GPA: 3.8/4.0   *May 2025*

GLS University   India

Post Graduate Diploma in Computer Application, GPA: 3.7/4.0   *May 2023*

CU Shah Institute of Science, Gujarat University   India

Bachelor of Science in Physics (B.Sc), GPA: 3.6/4.0   *May 2022*

HONORS & ACHIEVEMENTS

- AWS Certified Solutions Architect
- AWS Certified Cloud Practitioner
- Bronze Honor (Top 20%) in the International Astronomy and Astrophysics Competition
- 1st Rank in Autonomous Robotic Event, Techno-species Global Solution