

Aditya Sethi

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Profile Summary

Multi-Cloud Platform & Security Engineer with ~4 years architecting secure AWS environments and automated DevOps pipelines at Siemens Digital Industries Software. Proven expertise in building scalable, zero-trust infrastructure, executing vulnerability management (CVSS/CVE), and automating virtualization platforms (Hyper-V, VMware) for global Tech Marketing and PreSales enablement. Adept at scripting (Python, PowerShell), enforcing strict ITAR/DLP compliance, and aligning cloud solutions with the AWS Well-Architected Framework to drive aggressive infrastructure cost optimizations.

Skills

Cloud & Security: AWS (EC2, S3, VPC, IAM, Lambda, ALB, SSM, API Gateway), Azure AD, Entra ID, Auth0, JIT Access, SSO, RBAC, CVSS/CVE Vulnerability Management, ITAR/Export Control Compliance.

DevOps & Infrastructure: CI/CD Pipelines (GitLab, GitHub, SVN), Infrastructure as Code (IaC) principles, Virtualization (Hyper-V, VMware, VirtualBox), SAML 2.0, Automated Provisioning.

Programming & Scripting: Python, PowerShell, Bash, SQL, Java.

Data & AI Solutions: LLM Agents (LangChain), NLQ-to-SQL Pipelines, ETL/ELT, Aurora PostgreSQL.

Professional Experience

Consultant, Siemens Digital Industries Software – Bangalore, KA

December 2022 – Present

Cloud Security, Identity Access Management & DevOps

- Engineered Just-In-Time (JIT) IP-based access controls via dynamic AWS Security Group modifications and cross-account IAM AssumeRole policies spanning 15+ AWS accounts, strictly enforcing ITAR, Export Control, and Data Loss Prevention (DLP) compliance.
- Architected a multi-tenant serverless Angular SPA, integrating Entra ID and Auth0 for scalable SSO and granular, row-level RBAC across internal and alliance accounts.
- Executed enterprise patch and vulnerability management, tracking and remediating critical CVSS/CVE vulnerabilities while enforcing network segmentation via NAT interfaces for secure web application access.
- Established and managed robust CI/CD pipelines (GitLab, GitHub) to orchestrate zero-downtime deployments for platform infrastructure.
- Automated critical infrastructure maintenance via CRON jobs for log lifecycle management, neutralizing storage-heavy performance bottlenecks.
- Secured proprietary data distribution by deploying automated S3 pre-signed URLs, enabling audited, time-bound access to internal resources.

Virtualization, Automation & PreSales Enablement

- Engineered standalone Hyper-V virtual environments tailored for global PreSales demonstrations in zero-network locations, utilizing custom one-click batch scripts to fully automate local provisioning, accelerating setups by 70%.
- Developed a secure PowerShell/WinForms utility utilizing AWS SSM and user tokens for encrypted, port-forwarded RDP access to EC2 and RDS resources, instantly driving \$7,500 in combined annual infrastructure savings.
- Optimized cloud resource utilization of enterprise PLM/ALM applications (Teamcenter/Polarion) to guarantee right-sized application hosting and cost efficiency.
- Modernized legacy CMD-prompt workflows by engineering a GUI-driven VB/PowerShell application for dynamic configuration modification via HashMaps, eliminating end-user syntax errors.
- Engineered automated service-feedback pipelines leveraging sentiment analysis to proactively monitor user

satisfaction and platform operational integrity.

Data Engineering & Systems Integration

- Built an automated Azure AD/SAML user provisioning system for Polarion, establishing seamless identity governance while slashing administrative overhead by 60%.
- Architected an end-to-end cloud data pipeline on AWS to ingest operational metrics into real-time PowerBI dashboards, lowering manual reporting efforts by 90%.
- Delivered a production-grade NLQ-to-SQL pipeline utilizing LangChain and schema-aware prompt engineering, boosting query accuracy to ~92% while tracking hallucination rates.

Software Developer Intern, Kongsberg Digital – Bangalore, KA

Aug 2019 – Sept 2019

- Applied Python programming knowledge to develop internal data preparation workflows, accelerating processing cycles by ~25%.

Projects

HANS - Haptic-Aided Navigation System

[1st Runner-Up, InMobi Hack Day](#)

- Engineered a real-time geospatial data pipeline and localized sensor fusion module using Python to map dynamic navigation paths and deliver low-latency multimodal feedback.

Education & Certificates

Nitte Meenakshi Institute of Technology — Bangalore, KA

B.E. in Information Science and Engineering (Computer Science Focus) | 2022

- **AWS:** [Certified Solutions Architect - Associate \(2025\)](#) | [Certified Cloud Practitioner \(2024\)](#)
- **Google Cloud:** [Certified Professional Cloud Architect \(2020\)](#)
- **Siemens:** [Certificate of Excellence \(2023\)](#)
- **NPTEL (IIT Madras):** [Advanced Python Programming Certification \(Score: 97%\)](#)
- **In Active Preparation:** AWS Data Engineer (Associate), AWS Machine Learning (Specialty), TOGAF.