Monesh Kovi

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Education

Saint Louis University – Master of Information Systems

GPA: 3.95

Presidency University – Bachelor of Information Science

GPA: 3.4

Aug 2023 – Present Aug 2019 – Apr 2023

Work Experience

Cloud Security Intern - Alphathena, Chicago, IL

Jan 2025 – Ongoing

- > Conduct in-depth security assessments of AWS infrastructure, SaaS integrations, and back-end services; developed automated compliance checks using AWS Config and Lambda.
- Designed and implemented threat detection pipelines with Amazon GuardDuty and CloudWatch Logs Insights, reducing incident detection time by 50%.
- > Built a scalable ETL framework using Python and Apache Airflow to automate daily data imports, reducing human intervention by 90%.
- > Designed and implemented a log archival pipeline to move PROD API and Flask logs to S3 with automated Glacier transition after 15 days, optimizing storage costs and ensuring audit readiness.

Cloud Security Intern - Alphathena, Chicago, IL

May 2024 - Aug 2024

- > Led incident triage exercises, collaborating with cross-functional teams to investigate alerts, triage potential breaches, and execute response playbooks.
- Coordinated penetration testing engagements and remediated critical vulnerabilities in VPC security groups and IAM policies.
- > Orchestrated automated monthly rotation of EC2 key pairs and AWS Secrets Manager credential vaulting to eliminate exposed credentials and achieve 100% rotation compliance.
- Developed custom encryption modules with AWS KMS for S3 object at-rest protection, ensuring end-to-end data confidentiality.

Software Engineer Intern - Wrecked Esports, Bangalore, India

Apr 2023 – Jul 2023

- > Designed and deployed an internal reporting dashboard using advanced MySQL queries to enhance decision-making
- ▶ Enhanced invoice accuracy and query responsiveness by 44% while cutting maintenance needs by 50% using AI.

Software Engineer Intern - Wrecked Tech Private Limited, Bangalore, India

Jan 2023 – Mar 2023

- > Automated testing processes with Bash scripts, improving system reliability and operational efficiency.
- > Developed a feed refresh algorithm that boosted processing speed by 150% and increased content uniqueness by 80%.
- Performed advanced data analysis with Pandas and NumPy, enabling data-driven decision-making and identifying key metrics.

Projects

Automated Threat Hunting Framework, Self-Developed — *AWS CloudTrail, GuardDuty, Slack, PagerDuty* Developed a Python-driven toolkit integrating AWS CloudTrail and GuardDuty logs to surface anomalous API calls; enabled real-time alerting via Slack and PagerDuty.

Secure Authentication Platform, Self-Developed — AWS Cognito, OAuth2, MFA, Python, Jinja2, WeasyPrint Designed multi-factor authentication and OAuth 2.0 flows for a custom SaaS application on AWS Cognito, integrating comprehensive logging and monitoring for audit trails.

Core Skills

Cloud Security: AWS IAM, KMS, GuardDuty, Inspector, Config, CloudTrail, Security Hub

Infrastructure as Code: Terraform, CloudFormation

Threat Detection & Monitoring: ELK Stack, Datadog, Grafana, CloudWatch, Lambda

Networking Security: VPC, Security Groups, NACLs, TLS/SSL

Programming & Scripting: Python, Bash, SQL

Incident Response: Playbook development, Forensic log analysis, Triage workflows

Certifications

AWS Certified Security Specialist – Amazon Web ServicesIn ProgressAWS Certified Developer - Associate – Amazon Web ServicesJul 2024AWS Certified Solution Architect - Associate – Amazon Web ServicesJul 2024

Publications

➤ Intent-Driven Code Synthesis: Redefining Software Development with Transformers. Preprint, 2025. doi:10.20944/preprints202504.1732.v1

Professional Affiliations