

SUJITH KALUVA

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Summary

Software Engineer with 3+ years of experience specializing in AWS, Kubernetes, Terraform, and Cloud Security. Proven expertise in automating infrastructure, improving CI/CD pipelines, and optimizing costs and observability. Skilled in full-stack development and AI-driven automation.

Education

Northeastern University

Sep 2022 - Dec 2024

Masters in Computer Software Engineering

Boston, MA

Work Experience

Software Engineer, Cloud

Jan 2024 - Present

Massachusetts State Lottery

Boston, MA

- Engineering a CSPM solution by aggregating findings from AWS security services, Prowler scans, and Macie into Splunk, designing real-time dashboards and automated alerts to enhance visibility into cloud risks
- Orchestrated AWS-to-Splunk pipelines for security and infra logs using Kinesis, SQS, SNS, and Lambda, normalized data to CIM, built dashboards, and automated SPL-based alerts, reducing incident response time by 40%
- Migrated 10+ AWS accounts into Control Tower with SCPs and Guardrails, enhancing compliance by 40% and reducing misconfigurations by 70%
- Deployed decoy AWS keys and powershell scripts simulating access to S3 across laptops and servers, triggers alerts on interaction to detect credential theft
- Optimized CloudTrail and security observability stack, eliminating a logging loop that reduced costs by 80%
- Enforced GitOps-driven IaC using Terraform, GitHub Actions, and Snyk in CI/CD to prevent code vulnerabilities
- Hardened email security by enforcing DKIM, SPF, and DMARC compliance in SES, preventing domain spoofing attacks, and improving email deliverability

Software Engineer

Oct 2020 - Jul 2022

GE Healthcare - Capgemini

- Developed 12+ event-driven microservices using Spring Boot and Kafka, replacing synchronous workflows, reducing response time by 80%.
- Created reusable Terraform modules for provisioning secure AWS environments (VPC, EC2, RDS, S3, ALB), driving IaC consistency across teams
- Orchestrated robust CI/CD pipelines using Jenkins and Groovy scripting, enabling seamless deployment, integrated SonarQube checks reducing code vulnerabilities by 35%.
- implementing caching with Redis, and streamlining database queries, achieving a 200% reduction in API latency for high-traffic endpoints.

Projects

K8s-VulnSage | LLM trained on CVE data for insights on vulnerabilities | Open Source Security Project

Aug 2024

- Developed an AI-driven vulnerability intelligence platform, training **Llama3** on CVE data, integrated with **Kafka** and **Pinecone Vector DB**, improving real-time security insights by 50%
- Designed a scalable microservices ecosystem using **Go**, and **Python**, processing thousands of vulnerability events per second on **AWS EKS** with multi-AZ deployment, ensuring 99.99% uptime
- Implemented **Istio Service Mesh** with **Kiali**, improving traffic security and observability, reducing latency by 20%, and integrating **Fluent Bit**, **OpenTelemetry**, **Jaegar**, **Prometheus**, and **Grafana** for real-time performance monitoring
- Developed a **custom operator** using **Kubebuilder** to automate the ingestion of the latest vulnerability data, reducing manual intervention and response time by 60%
- Secured infrastructure with automated certificate management using **cert-manager**, **SOPS**, and **AWS Secrets Manager**, eliminating un-encrypted secrets exposure
- Automated full-stack infrastructure provisioning with **Terraform**, **Helm**, **Packer**, **GitHub Actions**, and **ArgoCD** accelerating secure cloud deployments by 70%

Certifications

[Certified Kubernetes Application Developer](#) | [AWS Certified Solutions Architect](#) | [Terraform Certified Associate](#)

Technical Skills

Languages: Go, Java, Python, Groovy, JavaScript, TypeScript, YAML, Shell, Bash, SQL, Powershell

Databases: Postgres, MySQL, NoSQL, MongoDB, Redis, DynamoDB

Frameworks: Spring Boot, React.js, NodeJS, Flask

Cloud-DevOps: AWS, Azure, GCP, Terraform, Kubernetes, Helm, Docker, CI/CD, Jenkins, Kafka, Unix, Linux, Packer

Monitoring: Splunk, OpenTelemetry, Prometheus, Grafana, Cloudwatch, Jaegar