



Arun Sanna

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Professional Summary

Innovative Cloud Architect and DevSecOps Leader with extensive experience designing and implementing secure, scalable, and AI-powered platforms for government and enterprise clients. Proven track record in leading mission-critical initiatives, including Department of Defense (DoD) and Centers for Medicare and Medicaid Services (CMS) modernization efforts. Expertise in Kubernetes, cloud security, automation, and AI/ML integration.

Key Achievements

Architected DoD's Largest PaaS (PartyBus): Designed and deployed a highly available Kubernetes platform supporting **1,000+ VMs and 300+ applications**, integrating **Zero Trust security** and **NVIDIA GPU workloads**.

Operation Allies Refuge: Played a **pivotal role** in orchestrating **mission-critical platform deployment** that enabled the successful **evacuation of 120,000+ people in 72 hours**.

CMS Modernization: Led a team that reduced application **migration timelines from 18 months to 90 days**, cutting **costs by 40%** and accelerating deployments to **weekly releases**.

AI-Powered Cloud Transformation: Built **NVIDIA GPU-powered Kubernetes clusters** for AI/ML workloads, integrating **JupyterHub for fraud detection** and **AI-driven chatbots** for CMS.

Security Automation & DevSecOps: Implemented **SBOM-based AI security tools**, automating vulnerability detection and compliance for DoD and CMS applications.

Technical Skills

Cloud Platforms: AWS, Azure, GCP

Kubernetes & Containers: EKS, GKE, AKS, Rancher, RKE2

Infrastructure as Code (IaC): Terraform, OpenTofu, CloudFormation

CI/CD & Automation: GitLab CI/CD, Jenkins, ArgoCD

Security & Compliance: Zero Trust, SBOM, CVE Scanning, OpenSCAP

AI/ML Technologies: NVIDIA GPUs, LangChain, JupyterHub, Kubeflow
Programming: Python, Go, Bash, Terraform CDK

Professional Experience

VivSoft Technologies LLC – *Chief Architect* (2019 – Present)

- Spearheaded AI-driven **cloud modernization** for **300+ applications**, ensuring **99.99% uptime**.
- Developed **automated DevSecOps pipelines** reducing security compliance efforts by **70%**.
- Integrated AI/ML capabilities for **fraud detection** in **Medicare payments**.
- Led a **cross-functional team of 25 engineers** in cloud transformation initiatives.
- Architected **multi-cloud Kubernetes environments** and optimized **resource utilization by 60%**.

Platform One, United States Air Force (DoD) – *Principal Cloud DevOps Architect*

- Engineered the **DoD's first managed DevSecOps service platform**, hosting **300+ mission-critical applications**.
- Implemented **Zero Trust security** and AI-driven **threat detection**.
- Developed **automated security compliance pipelines** reducing **ATO timelines from 18 months to 90 days**.
- Integrated **AI for mission-critical applications and predictive analytics**.

Centers for Medicare & Medicaid Services (CMS) – *Principal DevSecOps Architect*

- Led **fastest-ever federal app migration**, achieving **90-day ATO** for **5 apps with 50+ microservices**.
 - Built **secure Kubernetes platforms** with **automated compliance and AI-driven monitoring**.
 - Designed **self-healing infrastructure** reducing downtime by **80%**.
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Education & Certifications

Master's in Electrical Engineering (Computers & Networks) – *California State University, Los Angeles*

Bachelor's in Information Technology – *Jawaharlal Nehru Technological University*

Certifications:

- Certified Kubernetes Administrator (CKA)
- NVIDIA Certified AI Infrastructure & Operations
- AWS, Azure & Google Cloud Solutions Architect Professional