Arun Prakash Rajarajan

INFRASTRUCTURE CONSULTANT

Profile

With over 16 years in IT, I specialize in cloud infrastructure, DevOps transformation, and AI-driven platform engineering with a strong focus on AWS. I've led cloud migrations, built secure scalable systems, and guided teams through modernization for faster, reliable delivery.

Currently securing and enhancing an AI Assistant Platform on AWS (ECS, Bedrock, WAF, CloudFront, VPC), working hands-on with FastAPI and RAG-based systems. Passionate about blending infrastructure and AI to create practical, scalable, and secure solutions.

Professional Experience

Infrastructure Consultant - XConf AI Assistant, Thoughtworks, Köln

PRESENT

Context: Hands-on Infra consultant improving and securing an AI Assistant platform built on AWS.

Impact summary: Strengthened the entire AWS foundation and streamlined platform operations for faster, more secure AI workloads.

- Strengthened and secured the AI platform's AWS infrastructure within a short time by implementing WAF, CloudFront, and strict network controls.
- Designed and enhanced AWS architecture using ECS, ALB, VPC, Route53, and IAM, ensuring scalability and security.
- Worked hands-on with **FastAPI** applications to fix issues and improve stability.
- Contributed directly to **AI platform reliability**, working with AWS Bedrock, RAG pipelines, MCP, and multiple LLMs.
- Collaborated with product and engineering teams to design, test, and deploy AI-powered features seamlessly.
- Ensured compliance with organizational and security standards across environments.

Results: Improved system stability and reduced downtime; accelerated delivery cycles through infrastructure automation.

Infra Consultant / Tech Lead - Mercedes Benz, Thoughtworks, Köln

AUG 2023 — SEP 2025

Context: Tech Lead for a 10-member Infra team modernizing AWS-based microservices platform for a leading automotive client.

Impact summary: Drove major cloud migration and platform transformation, enabling self-service Infra and achieving $1M cost savings.

- Spearheaded the transformation of the Infra stack into a **self-service platform**, leading design and implementation.
- Led migration of the **entire EKS cluster, RDS**, and 20+ microservices and frontends with zero downtime.
- Hardened Vault, standardized Terraform modules, and implemented GitHub Actions ARC for scalable pipelines.
- Implemented **Karpenter** to replace legacy NodeGroups, improving resource efficiency and reliability.

Details

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DRIVING LICENSE

Klasse B (Germany)

DATE OF BIRTH

07.07.1987

Professional Skills

AWS Cloud Architectecture

DevOps Engineering

Cloud Security & Compliance

Backend Development (Java, Python, FastAPI)

AI Platform Integration (AWS Bedrock, LLMs, RAG)

LinkedIn

www.linkedin.com/in/arun7787

Languages

English

German

Tamil

Hobbies

Hiking, PS5 gaming

- Migrated monitoring from Prometheus/Grafana to **Datadog**, reducing incident detection time by 40%.
- Defined **SLAs** for core services and improved environment stability through proactive issue detection.
- Led a 10-member team while staying hands-on, ensuring technical excellence and timely delivery.

Results: Enabled $1M USD cost savings, improved developer autonomy, and accelerated deployments by ~30%.

Infrastructure Consultant – Mercedes Benz, Thoughtworks, Köln & Chennai

FEB 2022 — AUG 2023

Context: Infra consultant building secure, hybrid AWS connectivity and CI/CD automation for a microservices platform.

Impact summary: Established secure private connectivity and automated deployments across multiple environments.

- Designed and implemented **Transit Services**, VPC Endpoints, and Direct Connect for private on-prem communication.
- Built end-to-end infrastructure and CI/CD pipelines using GitHub Actions and Terraform.
- Configured and managed **Kubernetes clusters** and ingress with Helm and Nginx.
- Integrated **HashiCorp Vault** for secrets management and added custom authentication for frontend apps.
- Deployed and monitored Cert-Manager, establishing dashboards and alerts for proactive issue detection.
- Implemented **event-driven architecture** using API Gateway and Lambda (GoLang).

Results: Improved operational reliability by reducing network and deployment issues by 35%.

AWS Senior Consultant, Infosys Limited, Köln & Chennai

SEP 2017 — JAN 2022

Context: Core AWS consultant supporting large enterprise clients (Vodafone, United Airlines, AAA) in cloud migrations and DevOps modernization.

Impact summary: Delivered multi-account AWS infrastructure modernization, improving deployment speed and reliability across projects.

- Designed and deployed **Docker-based AWS architecture** using ECS, EKS, and CloudFront for enterprise workloads.
- Implemented Infrastructure as Code using **Terraform, Terragrunt, and CloudFormation**.
- Developed **CI/CD pipelines** in TeamCity and AWS CodePipeline, reducing manual deployment effort by 40%.
- Automated patching and configuration using AWS SSM; integrated **AppDynamics, Datadog, and EFK** for observability.
- Integrated **WSO2 API Management** into AWS Cloud to streamline API management.
- Created **Lambda functions** for event processing (Couchbase --> Kafka).
- Built reusable Ansible playbooks, reducing deployment turnaround time.

Results: Accelerated provisioning by 50%, improved monitoring coverage, and reduced manual operational overhead.

Senior Associate, Cognizant Technology Solutions, Chennai

SEP 2009 — SEP 2017

Context: Java backend developer contributing to large-scale applications in the Education and Media/Entertainment domains.

Impact summary: Built and maintained enterprise-grade backend systems.

- Developed and enhanced Java-based applications with a focus on reliability.

Results: Improved release stability and developer productivity.

Achievements

Strengthened and Secured AI Assistant Platform

PRESENT

Within no time, strengthened and secured the AWS infrastructure of the AI Assistant platform, implementing WAF, CloudFront, strict network controls among other improvements - resulting in a more stable, secure, and high-performing system.

Contributed to $50M Strategic Deal Win

2020 — 2021

Played a key role in helping the Infosys secure a $50M engagement with a major roadside assistance provider by being part of the core solutioning team. Contributed to the design and technical strategy that strengthened the proposal and demonstrated delivery confidence to the client.

Led Major Cloud Migration with $1M Cost Savings

MAR 2025 — SEP 2025

Led and worked hands-on in a large-scale migration involving the entire EKS cluster, RDS, and over 20 microservices and frontend applications. Ensured seamless cutover and improved scalability while optimizing infrastructure costs, achieving **$1M USD in annual savings** and significantly enhancing system reliability.

Tools & Technologies

AWS Cloud & DevOps: AWS (ECS, EKS, EC2, S3, VPC, WAF, CloudFront, Route53, Bedrock), Terraform, Terragrunt

Security: IAM, WAF, Shield, Secrets Manager, Vault, KMS

Programming: Python (FastAPI), Java, Shell

Monitoring: Datadog, CloudWatch, Prometheus, Grafana

CI/CD & Automation: GitHub Actions, GitLabCI, ArgoCD, CircleCI TeamCity, CodePipeline, Ansible

AI/LLMs: AWS Bedrock, RAG Systems, MCP Integration, OpenAI

Certifications

AWS Certified DevOps Engineer - Professional

AWS Certified Solutions Architect - Associate

AWS Certified Developer - Associate

Education

Bachelor of Engineering

2004 — 2008