

Manimaran Selvan

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PROFESSIONAL SUMMARY

Cloud Architect with 17 years of experience designing scalable, multi-cloud systems on AWS, Azure, and GCP. Skilled in cloud-native modernization, observability, and AI automation, with leadership strengths in reliability, cost efficiency, and delivery speed. Experienced in leading teams to build resilient architectures, optimize CI/CD, and drive business outcomes.

TECHNICAL SKILLS

- Cloud Platforms** | AWS, Azure, GCP
- Programming Languages** | Java, Groovy, Python, TypeScript, JavaScript
- Architecture & Infrastructure** | Multi-region systems, Microservices, Event-driven design, IaC (Terraform, CloudFormation), Kubernetes (EKS/GKE), Docker
- DevOps & Observability** | CI/CD Pipelines (GitHub Actions, Jenkins, Cloud Build), Monitoring & Tracing (Grafana, SignalFx/Splunk, New Relic, Cloud Monitoring, Prometheus)
- Data & Integration** | BigQuery, DynamoDB, PostgreSQL, MySQL, Redis, Pub/Sub, Kafka, REST, GraphQL
- AI & Automation** | Vertex AI (Gemini API), Azure Video Indexer, GPT-4 APIs
- Networking & Security** | VPC, Security Groups, Load Balancers, API Gateway, WAF, Secrets Manager
- Resilience & Performance** | Auto Scaling, Multi-AZ, Blue/Green Deployments, Caching Strategies
- Frameworks** | Spring Boot, Node.js, React, Angular
- Tools** | Git, Github, Bitbucket, GitLab, Gradle, Maven, Postman, Jira, Confluence
- Security & Governance** | IAM, Audit Logging, Cost Optimization, Compliance & Risk Controls
- Methodologies & Architecture** | Agile (Scrum/Kanban), Lean, UML, C4, DDD

WORK EXPERIENCE

- Cloud Solutions Architect / Senior Program Manager**
Pragya Consulting Services (on assignment to **Al Jazeera Media Network**)

Jul 2023 – Present
Brussels, Belgium

 - Architected **multi-region cloud infrastructure** across AWS, Azure, and GCP, ensuring high availability and scalability for global news and media workloads.
 - Led the **modernization of legacy media platforms**, migrating to cloud-native architectures that improved reliability by 40 % and cut operational costs by 30 %.
 - Established **DevOps standards and CI/CD pipelines**, reducing deployment cycles from days to hours.
 - Developed an **Observability Playbook** and directed bi-weekly and quarterly QoS reviews, boosting monitoring accuracy to 95 % and shortening incident response by 25 %.
 - Partnered with the **JaWaCloud data warehouse** team to migrate ETL jobs to Cloud Run Jobs and publish custom metrics to enhance visibility and cost governance.
 - Built a **multi-cloud Video AI platform** using Azure Video Indexer, GPT-4 APIs, and Vertex AI, processing thousands of hours of video for transcription and translation.
 - Conducted **architecture reviews, cost audits, and technical mentoring** to strengthen reliability, performance, and engineering excellence.
- Cloud Software Architect / Technical Product Manager / Lead Software Engineer**
Trilogy Enterprises

Jan 2015 – Jun 2023
Austin, Texas (Remote)

 - Architected and scaled **CloudFix**, an AWS cost-optimization platform delivering \$100M+ cumulative savings across enterprise customers.
 - Centralized **IT operations for 5K+ global engineers**, achieving 85 % cost savings through automation and unified tooling.
 - Led **20+ senior SREs**, improving productivity 4× via process optimization and clear delivery workflows.
 - Designed **lean software assembly lines** enabling continuous, 24/7 product delivery across multiple geographies.
 - Authored **M&A IT transition playbooks** integrating 15+ acquisitions into standardized cloud infrastructure.
 - Created AWS-based tools for **specification ordering, ranking, and engineering bootcamps**, cutting operational overhead by 75 %.

Founding & Early Engineering Roles

2018 – 2014

Tissow – NallanTech – EMRG – YuMe

Chennai, India

- Co-founded and architected startups delivering **e-commerce, fintech, and data platforms**, using Java/Spring, Hadoop, Solr, Zookeeper, and Kafka.
- Led **product modernization and PCI-compliant payment solutions**, improving user experience and security compliance.
- Directed **small engineering teams** delivering distributed data systems and mobile applications across cloud and on-prem environments.
- Drove **infrastructure automation, DevOps adoption, and cost optimization** during early-stage product scaling.

CERTIFICATIONS

AWS Certified Solutions Architect – Professional

Valid until Sep 2027

Validation Number: [e478210227fd46fdaccc48b5e403dba0](#)

EDUCATION

B.Sc. Computer Science

2008

Bharathidasan University

Trichy, India