

# Manimaran Selvan

+32 494 80 63 77 | [mselvan@belyf.com](mailto:mselvan@belyf.com) | <https://www.linkedin.com/in/maniselman/> | <https://github.com/mselvan/>

## 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, TOGAF, UML, C4, DDD

## WORK EXPERIENCE

### Cloud Solutions Architect / Senior Program Manager

Jul 2023 – Present

Pragya Consulting Services (on assignment to Al Jazeera Media Network)

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

Jan 2015 – Jun 2023

Trilogy Enterprises

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 4x 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**

Tissow – NallanTech – EMRG – YuMe

**2018 – 2014**

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**

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### **AWS Certified Solutions Architect – Professional**

**Sep 2024 – Sep 2027**

*Validation Number: [e478210227fd46fdaccc48b5e403dba0](#)*

## **EDUCATION**

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### **B.Sc. Computer Science**

Bharathidasan University

**2008**

Trichy, India