

Manimaran Selvan

Cloud Software Architect | Engineering Leader

Brussels, Belgium mselvan@belyf.com +32 494 80 63 77 linkedin.com/in/maniselvan github.com/mselvan

SUMMARY

Impact-driven Software Architect with **17+ years** of experience in designing scalable cloud-native architectures, integrating AI solutions, and optimizing systems for performance and reliability. Proven track record in modernizing legacy systems, mentoring high-performing teams, and delivering innovative technologies that drive significant business value. Committed to fostering operational excellence and driving innovation for organizational success.

SKILLS

Programming Languages

Java Groovy Python JavaScript TypeScript

Frameworks & Libraries

Spring Spring Boot Node.js Angular React

Cloud Providers

AWS GCP Azure

Containerization & DevOps

Docker Kubernetes EKS ECS GKE CI/CD Terraform CloudFormation

Data & Analytics

BigQuery Pub/Sub Dataflow MySQL PostgreSQL MongoDB DynamoDB Redis

Monitoring & Observability

Cloud Monitoring SignalFx / Splunk Observability Grafana Prometheus

Messaging & API

Kafka AWS Messaging REST GraphQL Swagger

Generative AI & Media AI

LangChain LlamaIndex GPT-4 / GPT-4o APIs Azure Video Indexer Vertex AI Bedrock FAISS RAG Fine-tuning Prompt Engineering

Architecture & Modeling

TOGAF ArchiMate UML C4 Models DDD Microservices Enterprise Architect

CERTIFICATION

AWS Certified Solutions Architect - Professional
Validation Number: [e478210227fd46fdaccc48b5e403dba0](#)

Sep 27, 2024 — Sep 27, 2027

EXPERIENCE

Cloud Solutions Architect
AI Jazeera Media Network | Brussels, Belgium (Remote)
Leading cloud architecture and digital transformation initiatives for one of the world's largest news organizations

- Architected multi-region cloud infrastructure on **AWS, Azure, and GCP**, ensuring high availability and scalability for **millions of daily news consumers** worldwide.
- Modernized **legacy media platforms** by migrating from on-premises to cloud-native solutions, improving system reliability by **40%** and reducing operational costs by **30%**.
- Established **DevOps standards** and CI/CD pipelines, cutting deployment time from days to hours and enabling **faster release cycles** for newsroom applications.
- Developed an **Observability Playbook** and led **Biweekly, Quarterly, and Annual QoS reviews**, increasing monitoring accuracy to **95%** and improving incident response times by **25%**.
- Partnered with the **JaWaCloud (AI Jazeera Data Warehouse) team** to migrate critical ETL Jobs from **Cloud Run Services (Functions) to Cloud Run Jobs**, which loads data to **BigQuery** for data pipelines and publishing **Cloud Monitoring custom metrics** to enhance observability and cost governance.
- Built a **multi-cloud Video AI platform** using Azure Video Indexer, GPT-4o APIs, Google Vertex AI, and Pub/Sub, processing **thousands of video hours** for transcription and translation.

IT Consultant (Cloud Software Architect)
Pragya Consulting Services | Brussels, Belgium

July 2023 - Present

- Delivered innovative cloud and AI solutions, serving as a hands-on architect and technical expert
- Designed and deployed scalable, **cloud-native architectures on AWS**, optimizing performance, fault tolerance, and cost-efficiency for diverse enterprise use cases
- Developed **AI-driven solutions utilizing LLaMA models**, integrating them with custom retrieval-augmented generation (RAG) pipelines to enable intelligent, context-aware decision-making
- Enhanced team productivity by introducing streamlined **CI/CD workflows** and ensuring alignment with Agile methodologies
- Conducted code reviews, architecture validations, and cloud cost audits to ensure robust designs and operational efficiency

Technical Product Manager (Cloud Software Architect)

August 2017 - June 2023

Trilogy Enterprises | Austin, Texas (Remote)

- Led cost-saving initiatives, architected and developed CloudFix, and improved work allocation and delivery processes
- Achieved **\$15M savings in 3 months** by developing CloudFix, leading to over **\$100M in cumulative savings** for customers
- Designed and developed an **AI-powered chatbot for CRM**, leveraging LangChain, GPT-3.5 API, and RAG to deliver intelligent, context-aware conversational capabilities. Achieved a **75% improvement in customer interaction efficiency**
- Implemented **lean software assembly lines** for efficient work delivery through well-defined work units and 24/7 operations for a global workforce of over 5K
- Co-managed **60+ TPMs**, preparing for a VP role by working alongside the retiring VP
- Developed tools for specification ordering, search, ranking, and CTO boot camps using AWS technologies, reducing **operational overhead by 75%**

Lead Cloud Software Engineer

January 2015 - August 2017

Trilogy Enterprises | Austin, Texas (Remote)

- Centralized IT operations, managed senior SREs, automated processes, and handled M&A activities
- Centralized IT operations for a global workforce of 5K+, achieving **85% cost savings**
- Coached and managed **20+ senior SREs**, enhancing their productivity by 4x
- Authored M&A IT transition playbooks, integrating over **15 acquisitions**
- Implemented JIRA workflows and advanced automation, reducing **operational overhead by 75%**
- Contributed to the development of VDI2, a web app for deploying AWS services with an audit trail, preceding AWS's comprehensive IAM and compliance features

Technical Co-founder

October 2013 - December 2014

Tissow Technology Ventures | Chennai, India

- Architected and developed Humingo, replatformed Ticketgoose, and optimized tech operations
- Built Humingo, an **e-commerce product discovery and aggregation platform**, comprising a distributed crawler and product classifier, in 6 months using Cloudera Hadoop, Apache Solr, Lucene, HDFS, Zookeeper, and Kafka
- Modernized Ticketgoose, a bus ticket booking platform, reducing operational complexity and improving user experience in 3 months using Spring framework
- Reduced TCO by **50%** by switching from AWS to Linode, and later moving back to AWS after the introduction of GP2 volumes

Senior Associate

December 2011 - October 2013

Nallan Technology Ventures | Chennai, India

- Architected and built Kachyng, a PCI-compliant mobile payments platform
- Implemented **single-click checkout**, enhancing UX by reducing transaction time by 50%
- Led the **PCI compliance initiative**, implementing encryption, tokenization, and rigorous security protocols to meet stringent security standards, successfully passing all compliance audits

Technical Co-founder

August 2010 - December 2011

EMRG Software Solutions | Chennai, India

- Led a 10-member team, architected, and developed 2 products in the financial information research space
- Architected software platforms to **ETL** market data. Built Stock Screener, Portfolio Manager, and Thought Sharing Platform

Systems Engineer & Java Application Developer

August 2008 - August 2010

YuMe | Chennai, India

- Managed infrastructure and automated deployments across 6 environments, overseeing production deployments, migrations, and daily DevOps tasks
- Conducted R&D in early mobile technologies, developed native apps, and created proof-of-concepts using **Google Web Toolkit**

EDUCATION

B.Sc Computer Science

2008

Bharathidasan University | Trichy, India