Manimaran Selvan

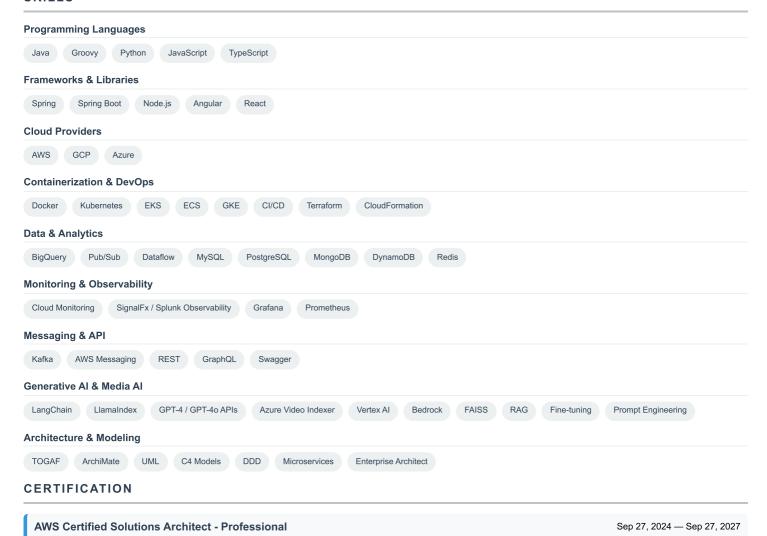
Cloud Software Architect | Engineering Leader

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SUMMARY

Impact-driven Software Architect with 17+ years of experience in designing scalable cloud-native architectures, integrating Al 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



EXPERIENCE

Cloud Solutions Architect January 2025 - Present

Al Jazeera Media Network | Brussels, Belgium (Remote)

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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 (Al 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 Al platform using Azure Video Indexer, GPT-4o APIs, Google Vertex AI, and Pub/Sub, processing thousands of video hours for transcription and translation.

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 Al-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 Al-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