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   **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 (BigQuery)** 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 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 %.

Technical Co-founder/ Software Architect
Oct 2013 – Dec 2014

Tissow Technology Ventures
Chennai, India

- Co-founded and led engineering for **Humingo**, an e-commerce product discovery and aggregation platform built using Cloudera Hadoop, Apache Solr, Lucene, HDFS, Zookeeper, and Kafka.
- **Re-architected Ticketgoose**, a bus-ticketing platform, modernizing its backend with Spring Framework to improve scalability and reduce operational complexity.
- Drove **cloud cost optimization**, reducing total cost of ownership by 50 % by shifting workloads between AWS and Linode.
- Implemented **continuous delivery pipelines** and early microservice patterns, improving deployment consistency and team velocity.

Senior Associate / Software Architect
Dec 2011 – Oct 2013

Nallan Technology Ventures
Chennai, India

- Architected and developed **Kachyng**, a PCI-compliant mobile payments platform enabling one-click checkout and reducing transaction time by 50 %.
- Led the **PCI DSS compliance initiative**, implementing encryption, tokenization, and secure key management to pass all compliance audits successfully.
- Designed **microservice-style APIs** and modular payment components, enhancing scalability and maintainability.
- Collaborated with partners and acquirers to ensure **secure payment processing** and regulatory alignment.

Technical Co-founder / Software Engineer
Aug 2010 – Dec 2011

EMRG Software Solutions
Chennai, India

- Co-founded a 10-member startup building **financial information and analytics platforms** for retail investors.
- Designed and implemented **ETL pipelines and data models** for stock screening, portfolio management, and market insights.
- Introduced **automation in data ingestion and validation**, improving delivery speed and data accuracy.

Java Developer / Systems Engineer
Aug 2008 – Aug 2010

YuMe
Chennai, India

- Managed **infrastructure automation and deployments** across six environments, supporting large-scale video ad delivery.
- Developed **internal tools and web components** using Java and Google Web Toolkit.
- Conducted early **mobile R&D**, creating proof-of-concepts for native applications.

CERTIFICATIONS

AWS Certified Solutions Architect – Professional
Valid until Sep 2027
Validation Number: e478210227fd46fdaccc48b5e403dba0

EDUCATION

B.Sc. Computer Science, Bharathidasan University, Trichy, India
2008