

Manimaran Selvan

Engineering Leader / Software Architect

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Software Engineering Leader with 15 years of solid experience and 6 years specializing in hardcore technical product management, making important architectural/technical decisions. Designs robust system architectures and implements cloud-based solutions. Led cross-functional teams to modernize legacy systems and drive product innovation. Mentored individual contributors, improving team performance and product quality. Applies Agile methodologies to enhance operational efficiency. Seeks to leverage technical and leadership skills in a challenging senior engineering/product role.

Skills

Programming Languages:

Java, Groovy, Javascript, Python

Framework/Libraries:

Spring, Spring Boot, JUnit, Mockito, Node.js, React

Source, Build & CI/CD:

Git, Github, Bitbucket, GitLab, Gradle, Maven, Jenkins

Databases/Cache:

MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Memcache

AWS Services:

EC2, EBS, EFS, AMI, S3, IAM, VPC, API Gateway, ECS, EKS, Fargate, Lambda, AppSync, Amplify, Step Functions, Cost Explorer, Cost and Usage Reports (CUR), Cognito, CloudFormation, Cloudwatch, Cloudtrail, SNS, SES, SQS, RDS/Aurora, DocumentDB, DynamoDB, ElastiCache, OpenSearch, Quicksight

Soft skills:

Strategic Planning, Leadership & Team Collaboration, Agile & Lean Methodologies, Continuous Improvement, Product Vision & Mission, Vendor Management, Stakeholder Management, Change Management, Testing Methodologies, Decision Making, People Management, Coaching/Mentoring, Crossfunctional Collaboration, Conflict Resolution

Cloud Providers:

AWS, GCP

Containerization:

Docker, Kubernetes, EKS, ECS

API / API Tech:

REST, Swagger, GraphQL

Search:

Amazon OpenSearch, ElasticSearch, Solr, Lucene

Messaging:

Kafka, AWS Messaging

Collaboration & Productivity:

Jira, Confluence, ChatGPT, Google Workspace, MS365, Figma, Lucidchart, Grafana

Experience

IT Consultant (Software Architect/Engineering Manager)

Jul 2024 – Present

Pragya Consulting Services | Brussels, Belgium

Remotely from Aug 2023 – managed projects utilizing Agile methodologies and tools such as Jira and Confluence. Provided coaching and mentorship to individual contributors, addressing technical and operational challenges. Engaged in product and architecture discussions, conducted code reviews, and established high-level API contracts.

- Doubled team productivity, increasing project delivery speed by 50% through targeted leadership and mentoring strategies.
- Reduced project delivery times by 20% using Agile methodologies and CI/CD practices.
- Successfully led an elite team of 6 engineers to deliver projects on time and within budget, resulting in increased client satisfaction.

Technical Product Manager (Software Architect)

Aug 2017 – Jun 2023

Trilogy Enterprises | Austin, Texas (Remote)

Led cost-saving initiatives, architected and developed CloudFix, and improved work allocation and delivery processes. Co-managed TPMs and architected and developed AWS-based tools for various

technical processes.

- Achieved \$15M savings in 3 months by developing CloudFix, leading to over \$100M in cumulative savings for customers.
- 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 Software Engineer (Software Architect)

Jan 2015 – Aug 2017

Trilogy Enterprises | Austin, Texas (Remote)

Centralized IT operations, managed senior SREs, automated processes, contributed to tools architecture and development, 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 (Software Architect)

Oct 2013 – Dec 2015

Tissow Technology Ventures | Chennai, India

Architected and developed Humingo, replatformed Ticketgoose, and optimized tech operations by switching cloud providers.

- 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.
- Reducing TCO by 50% by switching from AWS to Linode, and later moving back to AWS after the introduction of GP2 volumes.

Senior Associate (Software Architect)

Dec 2011 – Oct 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 (Software Architect)

Aug 2010 – Dec 2011

EMRG Software Solutions | Chennai, India

Led a 10-member team, architected, and developed 2 products in the financial information research space.

Systems Engineer & Java Application Developer

Aug 2008 – Aug 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