

# Ajith Kattil ( AWS Solution Architect Professional, PMP)

San Jose, CA, USA

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Visionary Engineering Transformation Leader with 20+ years in Digital Technology, including 15+ years architecting and leading DevOps, Cloud, Platform Engineering, and AIOps initiatives. Deep expertise in enterprise-scale infrastructure modernization and AI/ML-powered platforms, delivering secure, resilient, and scalable systems across complex, regulated global environments (on-prem, hybrid, multi-cloud). A hands-on technologist who leverages PMP-certified project leadership to drive structured execution — accelerating innovation, reducing risk, and improving time to market. Trusted advisor to CxOs on aligning engineering strategies with business objectives. Proven success building and mentoring high-performing global teams, uniting engineering, product, and operations to drive adoption, transform legacy ecosystems, and deliver agile, cloud-native architectures that maximize agility, uptime, and ROI

## Experience:

**Neural Labs**, Santa Clara, California, USA

Jul 2024- Present

### Principal Architect | Engineering Leader

- Deliver Engineering leadership and strategic guidance as Principal Architect to Multiple Orgs/Projects . @Opsara, as Engineering Leader, Led the digital transformation strategy driving a 35% increase in revenue by integrating AI/ML into core business operations.
- Drove product vision and delivery of a GenAI + DevOps platform that unified code, infra, and docs into a conversational system map, enabling secure multi-cloud impact analysis and on-demand PCI compliance reports.
- @Southern California Edison, Led architecture, implementation, and deployment of a secure, air-gapped Infrastructure and DevOps framework for SCE. Delivered end-to-end automation using GitHub Actions, AWS services, Kubernetes clusters, Istio service mesh, and GitOps workflows. Ensured compliance with strict regulatory requirements, improving operational resilience. Implemented Helm chart linting, validation, and signing to enforce deployment standards and security policies. Tech stack: Python, Fast API, LangChain, OpenAI, pgvector (Postgres), Neo4j, React, Mermaid.js, AWS, Azure, GCP, Linux, Docker, Kubernetes (K8s), Terraform, GitHub Actions (GitOps), Prometheus, Grafana, Istio, Jenkins, IOT integrations, Vault, Keycloak, Trivy, Aqua, Falco

**Fisec Global** , Pleasanton, California, USA

Apr 2023-Jun 2024

### DevOps Director

- Led the design and implementation of scalable and resilient AWS infrastructure for California State Student Council applications ensuring high availability, performance, and security compliance resulting in a 30% reduction in operational costs. Designed and deployed scalable microservices architecture on Azure Kubernetes Service (AKS)
- Led the implementation of Istio-based service mesh for secure, observable microservice communication across hybrid Kubernetes clusters. Integrated service mesh observability tool Prometheus to provide deep insights into service performance. Enabled GitOps workflows using Argo CD to deploy applications declaratively across multiple Kubernetes environments.
- Implemented the E2E CI/CD pipeline framework with IAC principles for containerized applications deployed to EKS/ECS. Integrated Ansible and Python scripts for automated provisioning, scaling, and configuration management. Tech Stack: AWS, Azure, EKS, ECS, AKS, Kubernetes (K8s), Istio, Prometheus, ArgoCD, GitOps, Jenkins, Azure DevOps, Docker, Ansible, Python, Linux, Terraform, CI/CD, Service Mesh, Hybrid Cloud, Security Compliance, maven, MSSQL, OpenShift, Istio, helm, GitHub actions

**ServiceNow**, Santa Clara, California, USA

Jul2020 – Jan 2023

### Senior DevOps Architect ( FTE)

- Provided technical leadership and guidance to development teams, ensuring adherence to ServiceNow development best practices and coding standards. Build and mentor DevOps team , support and foster a strong cultural environment.
- Combined role of DevOps Manager and Architect, managing a team of 20 + DevOps engineers, oversee the DevOps Adoptions of PAAS platforms like ServiceNow , Boomi , CRM , Oracle Cloud Infrastructure (OCI) ,Snowflake ,other Java Full stack platforms like Solarssearch etc . As Principal Architect for multiple projects, designed and implemented the end to end automation of Continuous Integration and deployment of the entire Platform stack in AWS.
- Led HIPAA compliance initiatives, aligning DevOps workflows with regulatory standards through automated policy enforcement
- Implemented Helm Charts as part of the deployment strategy, resulting in a standardized and efficient method for managing applications across multiple environments. Tech Stack: Servicenow, Chef, Azure, AWS, GCP, Shell, Python, maven, Terraform, Ansible ,Docker, Jenkins, Github , Microservices, Kubernetes, Java, C++, maven, Hashicorp config and vault, CloudFormation, Del Boomi, CRM Dynamics, Github actions

**Apexon**, Santa Clara, California, USA

Aug 2017 – June 2020

### DevOps Architect (FTE)

- Architected scalable and resilient infrastructure using cloud platforms like AWS, Azure, or GCP, utilizing services such as

EC2, S3, Lambda, Kubernetes, and Google Cloud Build. Research, propose and prototype new principles, technologies, tools, concepts and integrate them into the teams collective knowledge.

- Led the adoption of containerization using Docker and container orchestration with Kubernetes, improving application scalability, portability, and deployment efficiency.
- For Kaiser, Ensured secure handling of PHI and PII data across cloud environments by implementing encryption, access controls, and audit logging
- Built libraries in Python, Setup CI/CD pipelines for maven and gradle based projects, implement Jenkins shared libraries, frameworks for TDD, DevSecOps, Cobertura, Sonar for Static code analysis, Design and implement scalable, microservice based solutions with increasing focus towards migrating monolithic apps to containerized microservices  
Tech Stack: AWS, GCP, Azure, Chef, Shell, Python, Gradle, Terraform, Ansible, ELK, Docker, Jenkins, Git, Jira, Helm charts, Microservices, VPN, Apigee API gateway, Consul, Vault, Kubernetes, Java, C++, maven, .NET, Sonar, Jira, Hashicorp config and vault, Kafka, Hadoop, JavaScript, ReactJS, CloudFormation, firewalls, DNS

**Kohls**, Milpitas, California, USA

Nov 2016 – Jul 2017

#### **DevOps Manager**

- Managed and lead a team of 15 DevOps Engineers to architect, design, implement a robust, scalable CI/CD framework for Kohls, Developing in-house Engineering tools and related framework
- Strategized and drove execution of migration from on-prem to GCP Cloud for entire Kohl's IT infrastructure and Prod environment. Defined cloud strategies, roadmaps, and best practices, aligning them with business goals to drive successful cloud adoption and migration initiatives. Drove the adoption of automated testing and quality assurance processes, leading to a 40% improvement in software quality and a 25% reduction in production incidents
- Implemented robust monitoring and log aggregation solutions, including Prometheus and ELK stack, enabling real-time visibility into system performance, reducing incident response time by 40%, and enhancing troubleshooting efficiency  
Tech Stack: GCP, Jenkins, Bitbucket, ant, Perl, Shell, Chef, Puppet, Python, Java, Jira, Agile, AWS, Rest APIs, Nagios, Azure, API Design, Git, GHE, Splunk, Linux, agile, Cloud Computing, Docker, Kubernetes, API gateways, Ruby

**Intuit**, Menlo park, California, USA

Mar 2015 – Oct 2016

#### **Senior DevOps Architect**

- Designed, implemented, and patented a CI/CD tool library which is a combination of various DevOps techniques, tools and process which makes use of Jenkins, Chef, Github, Nexus, Docker and a Python based tool library.
- Defined DevOps strategies, roadmaps, and best practices, aligning them with business objectives to improve efficiency, reduce time-to-market, and enhance system reliability.
- Re-architected, simplified and streamlined CI/CD process using Java based tools which is a part of the framework comprising Spring, JPA, Hibernate, WebLogic, Linux.  
Tech Stack: Linux, Jenkins, Bamboo, Chef, Puppet, Python, Java, Bash scripting, SVN, Github, Tomcat/Mule Deployment, Restful APIs, cobbler, Nagios, Git, GHE, Splunk, REST, Linux, agile, Cloud, Docker, AWS, Docker

**Cisco Systems**, San Jose, California, USA

Jan 2010 -Feb 2015

#### **Sr Software Architect (FTE)**

- Worked for the Business Units CTG, CTBU, Webex and NMTG in a span of more than six years in various Engineering Management roles (Sr Software engineer, Tech lead, DevOps Architect)
- Mentored, guided a large engineering team, initiated Cisco Organization on DevOps concepts, drove initiatives and continuous improvement with a 70% success rate. Implemented CI/CD pipelines, leveraging DevOps tools resulting in a 65% reduction in deployment time and increased software quality
- Implemented Infrastructure as Code abstraction for Prod and Preprod environments using Puppet Configuration Management, Design of Deployment architecture for new identity Components, Scrum master running the Identity Agile scrums
- Led the implementation of microservices architecture using Spring Boot and Spring Cloud, improving system scalability, fault tolerance, and performance.
- Designed and Implemented Best practices for end-to-end Software development process which includes Java Spring, Jenkins CI, Maven, Puppet, Identity management, Deployment, Test automation etc.
- Developed Python and Bash script-based framework for Identity Components deployments, performed monitoring using Nagios writing custom Python scripts to ensure availability of services & applications and regular audit of application and system logs.  
Tech Stack: Cisco Cloud, Amazon EC2, Hudson, Puppet, Python, Java, C, Bash, OSGI Spring, scripting, SVN, Deployment, Restful APIs, cobbler, Nagios, Git, GHE, Splunk, REST, Linux, Jenkins, Ruby

**Space Machine Inc**, Sunnyvale, USA

May 2007 - Dec 2009

#### **Sr Technical Evangelist (FTE)**

- Managed the Platform engineering team globally, coaching/guiding the team on best practices, and making sure of a scalable, resilient, highly available system

- Developed a Python based Automation framework for the end-to-end Map Data processing which is Postgres based being consumed by GPS application  
Tech Stack: Visual Studio, C++, make, embedded C, Perl, Anthillpro, Shell, Ant, Java, SVN, Postgres, Linux, Windows, Python, Mobile, JBoss, WebLogic, WebSphere, maven, Platform engineering, Nagios, REST, Jira, Rally

**Symantec Corporation**, Mountain View, USA

Feb 2006- Apr 2007

#### Principal Consultant

- Designed, developed, and maintained secure software applications using the Java stack, Spring framework, maven and related technologies for Symantec AT product line.
- Implemented secure coding practices and followed OWASP guidelines to ensure the integrity and confidentiality of sensitive data  
Tech Stack: Java, C++, Linux, Shell, MySQL, Python, maven, SonarQube, Nexus, Application security, OWASP, SAST/DAST

#### Education, Training:

- ✓ M.S in Computer Science, University of Southern California (USC), USA
- ✓ B. Tech degree in Computer Engineering, Regional Engineering College (NITC), India
- ✓ Leadership & Innovation Program, Massachusetts Institute of Technology, USA
- ✓ AWS Solution Architect Professional, July 2025
- ✓ AWS Solution Architect Associate , Jun 2025
- ✓ PMP ( Project Management Professional ) certified by PMI , June 2025
- ✓ Gen AI Fundamentals certified by Databricks , Jun 2025
- ✓ AI for Everyone, DeepLearning.AI , May 2023
- ✓ DataDog QS , Certified by DataDog , April 2025
- ✓ Security Champion Certified by ServiceNow, May 2022
- ✓ Certified Kubernetes Security Specialist (CKS) – Exam scheduled Aug 2025
- ✓ Certified Information Systems Security Professional (CISSP) – Exam scheduled Aug 2025

#### Skill Summary:

Category	Technologies
Infrastructure & CI/CD	Jenkins, GitHub, Chef, Puppet, GitHub Actions, Azure DevOps, Spinnaker, ArgoCD, Terraform, Pulumi, Docker, Podman, Kubernetes, Helm, Rancher, Istio, Nexus, Amazon ECR, Azure Container Registry (ACR), Google Container Registry (GCR), GitLab Container Registry, Service Mesh (Istio, Consul Connect)
Cloud & Platforms	AWS, Azure, GCP, ServiceNow, Boomi, Dynamics CRM, SageMaker, Vertex AI, AWS Lambda, Azure Functions, GCP Cloud Functions, AWS RDS, Azure SQL Database
Observability & Monitoring	Dynatrace, Prometheus, Splunk, Datadog, New Relic, ELK Stack (Elasticsearch, Logstash, Kibana), Grafana Loki, Jaeger, Zipkin
Security & Compliance	DevSecOps, OWASP, Threat Modeling, Vulnerability Management Tools (Tenable.io, Qualys), SAST/DAST Tools (e.g., SonarQube, Checkmarx, Veracode, OWASP ZAP), Identity & Access Management (IAM) (Okta, Azure AD, AWS IAM), GDPR, HIPAA, SOC 2, ISO 27001, PCI DSS, FedRAMP
Coding/Scripting	Java, Python, Bash, Perl, Go (Golang), PowerShell
Leadership & Governance	Program/Project Management, Team Building, Mentorship, Strategic Planning, Vendor Management, Program Governance, Stakeholder Management, Budget Management / Cost Optimization, Change Management, Risk Management
Process/ Methodologies	Agile, Scrum, Kanban, SAFe, Change Management, Value stream mapping
AI/ML	AIOps, MLOps, PyTorch, Model Monitoring, Deep Learning, Edge AI, Model Inference, GPU Workloads, LLMs, FastAPI, LangChain, OpenAI, pgvector (Postgres)
Databases	PostgreSQL, MySQL, SQL Server, Oracle, MongoDB, Cassandra, Redis, DynamoDB
Networking	DNS, Load Balancing, Firewalls, VPN, Routing, Cloudflare, Akamai, AWS CloudFront
Messaging/Streaming	Kafka, RabbitMQ, SQS, Azure Service Bus, GCP Pub/Sub