

# RAMANATHAN NACHIAPPAN

1517 Spring Water Way, Highlands Ranch, CO-80129 | 480-359-9936

[ramssn@gmail.com](mailto:ramssn@gmail.com) | [LinkedIn](#) | [Github](#) | [Medium](#)

Highly accomplished Lead Software Engineer with 10+ years of experience at **GoDaddy and Amazon**, specializing in **cloud platform engineering and governance** at enterprise scale. Expert in driving **AI-driven platform engineering strategies** and **agentic automation** to modernize legacy infrastructure. Proven track record in **streamlining DevOps workflows** and scaling **modern CI/CD and Git practices** to deliver high-impact, scalable engineering solutions. For detailed information, visit my [profile website](#).

## TECHNICAL SKILLS

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<b>Languages, Frameworks and Databases</b>	Python3 (FastAPI, Flask, Pydantic, boto3, typer, rich), Java (Spring Boot), Typescript, Github Actions, Jenkins, TaskRunners (make, mise), mkdocs, Docker, Kubernetes
<b>Agentic AI</b>	AWS Bedrock, LangChain/LangGraph, CrewAI, Claude Agentic SDK, FastMCP and RAG
<b>Certifications</b>	AWS Certified Solutions Architect, AWS Certified SysOps Administrator
<b>AWS Services</b>	Organizations and Account Management, CloudFormation, Service Catalog, VPC, Cloudwatch, Cloudtrail, S3, SQS, SNS, EC2, IAM, DynamoDB, ECS, API Gateway, Lambda, Load Balancers

## PROFESSIONAL EXPERIENCE 10+ YEARS

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### Software Development Engineer IV (Lead) | GoDaddy Com LLC | Apr/2022 - Present

#### AI-Driven Infrastructure Modernization

- Built **multi-agent AI systems** that update legacy infrastructure templates from deprecated runtimes and database engines to supported versions, upgrading **100,000+ resources** and delivering ~85% developer time savings, recognized by the CTO for resolving major technical debt.
- Developed multi-agent systems to assist engineering teams in **migrating codebases from legacy compliance frameworks to modern governance standards**.
- Initiated **Agent orchestration frameworks** and **MCP-driven integrations** to automate AI adoption for cloud infrastructure modernization. Improved AI system reliability through **agent evaluation frameworks** and **prompt optimization**.

#### Cloud Governance & Compliance

- Led initiatives within **Cloud Governance**, designing scalable platforms and developer-facing tools to strengthen cloud controls while improving productivity and delivery speed.
- Integrated **AI-driven compliance capabilities** to automatically generate service-specific guardrails for new AWS services, embedding them into developer workflows for **“compliance-by-default” adoption** across the SDLC. Collaborated with platform engineering and security teams to ensure AI-driven capabilities align with enterprise governance standards and drive measurable efficiency gains.

#### Platform Engineering & Enterprise Scale

- As **Principal Engineer**, architected a centralized governance platform delivering **CloudFormation**-based infrastructure via **AWS Service Catalog**. Engineered high-availability CI/CD pipelines with **StackSet integration** to automate the rollout of standardized blueprints across **2,000+ accounts** and **10,000+ regional environments**, ensuring consistent, enterprise-scale compliance for 4+ years.
- Mentored engineers, collaborated cross-functionally with security, compliance, and platform teams, and represented **Cloud Governance in leadership forums**.

### Software Development Engineer | Amazon Web Services INC | Aug/2020 - Apr/2022

- **Distributed Polling Systems:** Developed and maintained a large scale distributed global polling system using Python and DynamoDB to capture real-time telemetry from critical data center infrastructure (BMS/EPMS systems) across AWS regions.
- **Full-Stack Development:** Developed enterprise-grade features for the quote-to-contract platform used by AWS Sales, enabling secure, efficient workflows for high-value enterprise deals. Technologies: Java, Spring Boot, TypeScript, ReactJS and Jenkins.

### Software Development Engineer 2 | GoDaddy Com LLC | Jan/2019 - Aug/2020

#### Cloud Platform Engineering:

- Built to the **enterprise AWS landing zone platform**, provisioning account resources for project teams and defining organizational structure aligned with cost centers for budgeting across verticals and teams.
- Built **core infrastructure components** including customized VPCs, Direct Connect integration to on-prem environments, IAM resources, pipelines, and centralized logging, enabling secure, scalable, governed cloud operations. Collaborated with application teams to ensure consistent patterns for networking, identity, security, and Service Catalog adoption.

#### **Cloud Artifacts Management:**

- Implemented a **monorepo strategy for AWS Lambda services**, improving maintainability, consistency, and deployment efficiency across multiple GoDaddy AWS accounts. Designed and built a fully customized CI/CD pipeline to deploy differential updates to monorepo artifacts, enabling efficient and automated system operations.

#### **Software Engineering Intern | Paradox LLC (Acquired by Workday) | Sept/2018 - Nov/2018**

- Joined as one of the first ~10 engineers and built a **Job Search API service**, enabling efficient querying and retrieval of job listings for the **paradox AI Assistant** using Python Django and ElasticSearch Service. Delivered a **functional end-to-end service within three months**, contributing to the company's early engineering foundation.

#### **Summer Analyst | Goldman Sachs & Co | May/2018 to Aug/2018**

- Developed a **high-performance** live credit usage **dashboard** integrating Kafka, JVM tuning, and scalable architecture. Implemented **Test Driven Development (TDD)** using Groovy and Spock Framework to ensure code reliability.
- Technologies: Java, Gradle, React.js, Groovy, Kafka.

#### **Software Engineer | Trimble Information Technologies India Private Ltd. | Jun/2014 - Dec/2016**

- Built and maintained APIs for **Trimble Connected Community** and **Trimble Connect**, integrating construction management products into a unified customer platform.
- **Optimized high-load, long-running APIs**, improving performance by ~**85%** and significantly reducing latency for critical operations. Developed RESTful web services using Java Spring MVC and Jersey Framework.

#### **EDUCATION**

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**MS in Computer Science | Arizona State University | CGPA: 3.77/4.0 | Jan/2017 - Dec/2018**

**BE in Computer Science | Anna University, India | CGPA: 8.64/10.0 | Aug/2010 - Apr/2014**

University rank 37 out of 8000 students | Merit Scholarship Award for outstanding performance