

Avinash Kemparaju

Senior Software Engineer@Cisco

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Profile

Senior Software Engineer (Backend) with **8+ years** of experience architecting **scalable, fault-tolerant systems** and leading **greenfield development initiatives**.

I specialize in **end-to-end cloud architectures, serverless solutions, and API development**, with a strong focus on optimizing product performance and cloud infrastructure costs. I am also an **AWS Certified Solutions Architect – Associate**.

Professional Experience

10/2022 – Present
Bengaluru

Senior Software Engineer (Backend)

Cisco Systems Inc

- Architected the core of Tenant Control & App Control Services for **Cisco Umbrella & SSE backend infrastructure**.
- Designed and built **Autosync Service**, a robust solution which monitors & rotates EKS/ECS services in response to changes in secrets or SSM parameters, ensuring seamless updates and no downtime.
- Completed **FedRAMP Uplift** activities for Umbrella SWG & SSE, achieving FIPS IL2 compliance and delivery to US govt customers.
- Stack: GoLang, Python3, NodeJs, Pulumi, Jenkins, Terraform, AWS services.

06/2021 – 09/2022
Hyderabad (Remote)

Senior Software Engineer (Backend)

Freshworks Inc

- Implemented **Summary Highlights** feature for leads, contacts & deals, resulting in 30% increase in usage among customers.
- Created Migration Scripts using Ruby on Rails and migrated 50+ customers from FSA to CRM product.
- Stack: Ruby on Rails, Python3, AWS services

06/2019 – 05/2021
Bengaluru

Software Engineer (Backend)

Viacom18 Media Pvt Ltd

- Integrated **payments and subscriptions** into the Voot OTT platform using multiple PGs like RazorPay, PayU, Coupon Codes, Google & Apple subscriptions, which attracted over 300K+ paying customers.
- Proactively developed an entire solution for **on-demand video transcoding**, so it could be streamed in HLS and DASH formats.
- Stack: RazorPay APIs, Python3, NodeJs, AWS services.

07/2017 – 06/2019
Bengaluru

Build Tools Engineer

McAfee Corp

- Optimised and managed the QA automation suite & QA cloud.
- Increased UT coverage from 40% to 90% and Led the **Stateless Automations** which removed any pre-requisites needed to run the UTs and E2E test cases in any environment.

Skills

| | | | |
|--|-----------|---|-----------|
| Backend System Design | ● ● ● ● ● | Cloud Platforms | ● ● ● ● ● |
| Microservices & Serverless Architectures, Event Driven Architectures, Autoscaling, API Designs | | AWS (EC2, Lambda, EKS, ECS, RDS, DynamoDB, Elasticache, SQS, SNS, S3, EventBridge, StepFunctions, etc.), Firebase services (Cloud Firestore, Cloud Functions, Realtime Database, Cloud Messaging, etc.) | |
| AI Tools | ● ● ● ● ● | Databases | ● ● ● ● ● |
| GitHub Copilot, ChatGPT Codex, Windsurf, Grok with Agent Modes, MCP Models | | PostgreSQL, MySQL, DynamoDB, Redis Caching, Firebase Firestore, etc. | |
| DevOps | ● ● ● ● ● | Programming | ● ● ● ● ● |
| Terraform, GitHub Actions, Jenkins, Pulumi, Serverless | | Python, GoLang, NodeJs, Dart | |
| Observability | ● ● ● ● ● | | |
| Grafana, Datadog, Cloudwatch | | | |

Achievements

WDSE India Mentorship Program@Cisco - 2025

1st place for the Mentor-Mentee program and demoed "Getting Started with GitHub Copilot" to SBG.

WDSE Innovation Summit@Cisco - 2024

1st place for YouTube Tenant Control feature.

AWS Solutions Architect - Associate

Certificate validation number: 5ZXRPB221ME1QXWW

Best Performer Award@Jiocinema aka Voot

For subscription management system & PG integration work.

Best Project of the year - 2017

The Namma Karnataka tourism Android app received the best project in the department.

Side Projects

MyGala Invites ↗

mygala.in

- Digital Invites solution for various occasions like Birthday, Wedding, House Warming, Baby Shower, etc.
- Used **Google Flutter** for both Android & iOS Apps.
- Backend is fully serverless, making use of AWS lambda functions with API Gateway/S3/SNS/SQS as triggers & Aurora Serverless RDS DB.
- Around **1K downloads** so far.

RentMyTent App

- RentMyTent was a travel gear rental platform. Ex: Camping Tents, Trekking Shoes, etc.
- Integrated delivery partners like Dunzo & Blowhorn via B2B APIs and RazorPay PG for payments.
- Stack: Flutter App & AWS Lambda Functions - backend.

Namma Karnataka Tourism App

- A comprehensive tourism app showcasing Karnataka's top attractions.
- Featured detailed information about tourist destinations across the state.
- Achieved a milestone of **30K downloads** on the Google Play Store at its peak.

Interests

Trekking

8 Himalayan Treks & 20+ South Indian treks so far.

Cycling

Bengaluru to Mysuru, Charmadi ghat, Mullayanagiri etc.