

Karthik Ravishankar

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Bengaluru, India

EXPERIENCE

Consulting Engineer

July 2024 – Present

Cisco Systems – Customer Experience (CX)

Bengaluru, India

Automation & Network Testing:

- Develop and maintain 20+ automated test suites for Verizon's enterprise network services across IOS-XR and IOS-XE platforms, covering optics validation, EPNM monitoring, and L2/L3 service configurations.
- Built **CX MoP Automation** – a web application (Flask + Netmiko) that automates Method of Procedure execution: SSH data collection, intelligent interface parsing, auto-generated port mapping (Excel) and MoP documents (Word), reducing manual migration prep from hours to minutes.

Tools & Observability:

- Set up **Splunk Enterprise from scratch** – integrated 16+ test projects and network devices, built dashboards for test KPIs, automation adoption monitoring, and testcase reuse tracking.
- Built a **Project Timeline Estimator** tool to forecast execution timelines based on historical benchmarks, improving project planning accuracy for stakeholders.
- Built a **Weekly Status Overview Dashboard** tracking project-level metrics across 16 active projects for Verizon leadership.

Enablement & Leadership:

- Delivered **15+ technical sessions** on AI, Splunk, and automation across Verizon, SVS India, APJC CX Tech Bytes, and CX Lighthouse AI Labs.
- Authored complete lab guides and workshop content for CX Lighthouse AI Labs – 5 hands-on sessions covering MCP, GitHub Copilot, APIs, and custom agent building.
- Conducted a 5-day AI/ML bootcamp for new hires; onboarded 50+ engineers onto AI-assisted development workflows using Claude Code.

Technical Intern I

Jan 2024 – June 2024

Cisco Systems – Customer Experience (CX)

Bengaluru, India

- Built an **NSVT YAML Generator** web application to streamline network service validation test setup.
- Created training datasets from network CLI logs for an AIOps customer project.

PROJECTS

EcoVisionaries – AI Slack Moderator Bot / *TypeScript, Slack Bolt, PostgreSQL, pgvector* Apr 2026

- Built an AI-powered Slack bot for Work on Climate (40K+ member community) that surfaces complementary connection opportunities using a 5-stage pipeline: intent extraction, HyDE profile generation, multi-source retrieval, and LLM re-ranking. Achieved 72% precision vs 33% with naive RAG. (*CX Tech4Social Good Hackathon – 1st Runner-up*)

MCP AI Studio / *Python, Claude AI, MCP, RAG, Cisco APIs* Nov 2025

- Built a framework for AI-powered network operations, enabling natural language interaction with network devices and enterprise systems through Claude AI, MCP servers, and RAG pipelines.

Topic Search MCP / *Python, Podman, MCP, Cisco Topic API* Nov 2025

- Containerized MCP server for AI-powered search across Cisco CDETS bugs, Techzone articles, and documentation. Published internally and adopted across multiple Cisco teams.

Webex RAG Bot / *Python, RAG, Circuit API, Webex APIs* Jan 2026

- AI-powered knowledge retrieval bot integrating Webex Spaces data with RAG pipelines for enterprise knowledge management.

NetAuto MCP / *Python, MCP, Netmiko, Claude AI* Mar 2026

- MCP server enabling AI-driven interaction with network devices through natural language. Built for the Innovation League AI Hackathon.

Search Engine with Toxicity Predictor / *Python, NLP, Deep Learning*

Nov 2023

- Web search engine with integrated toxicity detection, classifying search results for harmful content using deep learning models.

EDUCATION

B.Tech in Artificial Intelligence & Data Science

Sep 2020 – May 2024

Sona College of Technology

Salem, India

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL, Bash, SPL (Splunk)

AI & ML: Agentic AI, RAG Pipelines, Prompt Engineering, Generative AI, LLMs, MCP Servers

Frameworks & Tools: LangChain, Google ADK, A2A Protocol, Flask, Claude Code, Robot Framework

Platforms & Data: Splunk Enterprise, Docker, Podman, Git/GitHub, PostgreSQL, MongoDB

CERTIFICATIONS

- **Cisco CCNP Automation** Feb 2026
- **Cisco DevNet Specialist – Core (DEVCOR)** Feb 2026
- **Cisco DevNet Specialist – Service Provider (SPAUTO)** Feb 2026
- **Splunk Core Certified User (SPLK-1001)** Feb 2026
- **AI Tech Practitioner – Cisco** Feb 2026

PUBLICATION

A Deep Learning Framework for Detecting Underwater Trash. IEEE ICCDS 2024.

DOI: 10.1109/ICCDS60734.2024.10560433 · **Best Paper Presentation Award**

AWARDS & RECOGNITION

- **CX Tech4Social Good Hackathon – First Runner-up** Apr 2026
- **AI Ideation Award – Cisco SVS** Mar 2026
- **SVS Rising Star Award – Cisco SVS** Dec 2025
- **Best Team Impact Award (Verizon Project) – Cisco SVS** Dec 2025
- **Automation Genie Award – Cisco SVS** Sep 2025
- **IC Champion Award – Cisco SVS** Sep 2025
- **1st Place – Verve-a-thon Gen AI Hackathon** Sep 2023
- **Best Paper Presentation – IEEE ICCDS 2024** May 2024
- **AI Challenge Winner – Cisco WISE India Chapter** Dec 2025

SPEAKING & COMMUNITY

- **Speaker:** “AI for your Future” – WISE India Flagship Event (Apr 2026).
- **Speaker:** CX Tech Bytes APJC – AI enablement session for APJC engineers.
- **Speaker:** CX Lighthouse AI Labs – delivered 5 hands-on workshop sessions with lab guides.
- **Speaker:** SVS Splunk Enablement Series – multi-session training for SVS engineers.
- **Interviewer:** Cisco Campus Ambassador hiring panel; conducted interviews for campus recruitment.