

Ravi Ranjan

Senior Member of Technical Staff · VCF Automation

+91 8184046618 · raviranjana.amu@gmail.com · [LinkedIn](#) · [GitHub](#) · Bangalore, India



Education

B.E., Computer Science

Annamalai University · 2013

M.Tech, Data Science, AI & ML

BITS Pilani, Bangalore · 2021

Technical Skills

Languages & Tools

Python, Java, Terraform, CI/CD, API automation

Networking

BGP, TCP/IP, end-to-end networking, large-scale lab configuration & troubleshooting

Cloud & Containers

Tanzu Kubernetes (WCP, TAS), Docker

VMware

VCF, vSphere, vCenter, ESXi, NSX-T/V, vRealize Suite (vROps, vRA, vRNI, vRLI, vRSLCM, vIDM)

Profile

- **12+ years at VMware/Broadcom VCF as Senior Member of Technical Staff and cross-stack SME spanning VCF, NSX, and the full vRealize suite.**
- **Lead architect of Lucid, gOAT Resiliency, and Unified Framework** — full lifecycle ownership from design through production at enterprise scale.
- **#1 contributor** to the **gOAT** framework (VCF repo); technical lead for teams of 3–5 and gatekeeper for cross-team framework library changes.
- **Customer champion** — translated enterprise topologies (**JPMC, T-System, Optum**) into repeatable lab automation for pre-release validation.
- **Org-wide influence** — led **Windsurf vs Cursor evaluation** for enterprise AI tooling adoption; vROps health adapter work aligned with **VCF SOS** direction.

Experience

R&D Engineer – SMTS (Jun 2021-Present)

Broadcom Inc. (formerly VMware), Bangalore, India

- Co-architected **Unified Framework** integrating **9 product teams'** xBU use cases into one execution flow (**50% execution efficiency** on scale lab; **JPMC** topology).
- Designed **Dynamic TF-VARS** to cut deployment inputs from thousands of lines to ~100, improving adoption for customers and internal teams.
- Built **Customer Profile Automation** with **122+ reusable modules** replicating **JPMC E2E** network topology in lab for pre-release validation.
- **Gatekeeper** for **gOAT** library changes (**200+ code reviews**); mentor for Terraform and networking across teams.

Member of Technical Staff III (Jul 2019 – Jun 2021)

VMware Inc., Bangalore, India

- Design + backend owner for **VCF SSP**: backward-compatibility and upgrade paths when xBU teams couldn't deploy VCF (**4.5k+** lines).
- Led QE for **VCF Edge** and L3 features; automated FVT and drove adoption with quality delivery.
- Led Interop / **UPM 1.0 & 2.0** coding, stabilization, and pipeline enablement.
- Integrated SSP and test pipelines into **VCF CI/CD** (Jenkins, Shell, Racetrack).

Certifications

VCAP-NV Design · 2023

VCP-NV · 2023

VCP-DCV · 2023

AMCAT Data Processing Specialist

Awards

The Spot Award · Broadcom · 2025

At Our Best · VMware · 2022

Q1 Star Award · VMware · 2021

The Spot Awards · VMware · 2019

#1 Code Contributor, gOAT

Approved Patent (Application Ref. I984)

Member of Technical Staff II (Dec 2016 – Jul 2019)

VMware Inc., Bangalore, India

- Authored **7k+** lines of vSphere/NSX automation (REST, PyVmomi); **300+** E2E scenarios.
- Delivered **500+** API tests improving NSX-T and vCenter release quality.

Member of Technical Staff I (Mar 2015 – Dec 2016)

VMware Inc., Bangalore, India

- Built vRA health monitoring adapter for vROps (Java/VMware SDKs) — later aligned with VCF health / SOS direction.
- Automated vSphere / ESXi / NSX-V interoperability testing.

Software Engineer (Sep 2013 – Jan 2015)

Webdoor IT Solutions Pvt. Ltd., Bangalore, India

- Developed Java/Python web and backend apps for client IT solutions across full SDLC.

Projects

Framework	Contribution	Impact
Lucid	Terraform Day0/Day1/DayN automation, 50– 60% code contribution	60% faster full-stack deploys
Unified	Microservice proxy for 9 xBU teams	50% execution efficiency; JPMC scale lab
gOAT	700+ operations and 100+ fault scenarios.	100+ pre-release issues surfaced
VCF SSP	Backend for patch / upgrade / Day-N qualification	Enabled backward-compat testing across xBU
API & E2E	500+ API tests and 200+ E2E interop test cases.	Broader NSX-vSphere coverage