

Hariharan Ravi

Azure Administrator/ Product Developer | AI & Agentic Automation | CCNA | Technical Content Creation

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PROFESSIONAL SUMMARY

CCNA-certified **Cloud Administrator / Product Developer** with ~2 years of production experience designing, automating, and troubleshooting enterprise Azure cloud and product development. **Operating like a startup** our team deals, from **market research phase to development and testing phase till customer presentations**, which has made me work in all those domains while delivering value. Love to work as a team where we could grow together and collaborate. Love to explore the latest of what AI has to offer and **leverage AI** for making workflows faster. Being an avid admirer of **networks and Cisco**, love to bring value to the team to highest regard.

CORE SKILLS

AI & Agentic Automation: Google Agent Development Kit (ADK), **Agentic tool-calling workflows**, **LLM orchestration**, Azure OpenAI & AI Foundry, Claude, GitHub Copilot, Prompt engineering,

Routing & Switching: **TCP, OSPF (multi-area, DR/BDR, ABR/ASBR), BGP, IS-IS basics**, ARP, DHCP, VLANs, 802.1Q trunking, STP/PortFast/BPDU Guard, EtherChannel (LACP/PagP), HSRP, VRRP, single/multi-mode fiber, Ethernet, DOCSIS basics

Azure Networking: Virtual Networks, Subnets, NSGs, Route Tables, VPN Gateway, Azure Bastion, NAT Gateway, VNet Peering, Hub-and-Spoke; **Microsoft Entra ID**, Azure Policy, RBAC, IAM

Automation & Tooling: Terraform (modular), Python, Bash, Azure DevOps CI/CD, Azure Automation; Cisco IOS, Packet Tracer, Wireshark, Nmap, Linux/Unix

PROFESSIONAL EXPERIENCE

Azure Administrator / Product Developer

Aug 2024 – Present

Tata Consultancy Services (TCS), Bangalore · Microsoft Azure Business Unit, Data & AI Center of Excellence

- Built an **LLM-powered compliance validation framework** (Python, Azure OpenAI, REST APIs) embedded in Azure DevOps CI/CD that automatically **validates** every infrastructure change against organizational Entra and security policy **before deployment** upon pull request.
- Shipped an **Azure AI Foundry LLM feature** converting Tableau/SAP BO metadata into Power BI semantic models, **cutting reconstruction time ~30%**; re-architected it into a fully end-to-end automated flow and am extending it with an **Agentic architecture** - earned **Star of the Month**.
- Reduced monthly infrastructure cost by **~40% (~INR 3 lakh/month)** by re-architecting the enterprise VM estate around consolidated shared networking resources.
- Authored reusable **Terraform modules** for the Azure Services product - ran the market study, prepared **slide decks**, and gave internal/customer demos - standardizing Azure and infrastructure provisioning for greenfield environment customers, **reducing deployment effort ~50%**; automated Azure Bastion provisioning end-to-end with Azure Automation and Bash, removing manual steps from secure remote-access workflows.
- Own enterprise Azure networking for the team - VNets, Subnets, NSGs, Route Tables, Bastion, NAT Gateway, VPN Gateway, VNet Peering plus **Entra ID access management** under **least-privilege** across the TCS MBU subscription.
- Architected a **hub-and-spoke, multi-session VM architecture** with cost-optimized per-user SKUs and Bastion-only secure access; delivered customer-facing demos on Azure automation, IaC adoption, and cost optimization.

PROJECTS

Cisroute.com - Networking Portfolio & Technical Content - [Live Site](#)

Content creation · LLM-assisted website build · Cloudflare

- Built and maintain a portfolio site documenting networking labs; run the [Cisroute YouTube channel](#) (CCNA education) and publish technical stories on [Medium](#), including the "[AI and Network Debugging](#)" article.

Agentic Network Debugging - Autonomous AI Network Troubleshooting Agent - [View Project](#)

Agent · Google ADK · Python

- Built an **autonomous AI agent** on Google's Agent Development Kit that converts plain-English symptoms ("I can't reach example.com", "is port 22 open?") into a root-cause diagnosis and remediation plan - **no CLI flags or manual command sequencing**.
- Engineered **seven callable network tools** - DNS/IP resolution, ping (RTT & packet loss), traceroute, port scanning, TCP handshake check, nslookup, routing-table inspection - that the agent **selects and chains autonomously**, calling only what the reported symptom requires.
- Agent reasons over combined tool output to report **root cause, most likely cause, and ranked alternatives with confidence**, compressing multi-step troubleshooting into a single conversational query. Works well with macOS and Windows using inbuilt Python libraries.

Hub-and-Spoke Azure Network with Transitive VPN Gateway Routing - [View Project](#)

Terraform · Azure

- Designed a production-ready hub-and-spoke architecture with centralized connectivity via VPN Gateway; automated VNets, NSGs, Azure Bastion, and VNet Peering through reusable Terraform modules.

EDUCATION · CERTIFICATIONS · ACHIEVEMENTS

Education: B.Tech., Computer Science and Engineering - **SASTRA Deemed University**, Thanjavur, India

2020 – 2024

Certifications: [CCNA 200-301](#) · [Claude 101 \(Anthropic\)](#) · Security, Compliance & Identity (SC-900) · Azure AI Fundamentals (AI-900) · Azure Fundamentals (AZ-900) · Azure Data Fundamentals (DP-900) · Fortinet Certified Fundamentals in Cybersecurity

Achievements: **Star of the Month, July 2026** - **AI semantic model automation** · Outstanding Grade (S) in Computer Networks · Cisco Campus Ambassador, SASTRA University