Raj Kolala

San Jose, CA | 925-984-8865 | rajkolala10@gmail.com | linkedin.com/in/rajkolala | github.com/RajKolala | Portfolio

Education

San Jose State University — **May 2027**

Bachelor of Engineering, Computer Networking System Management, Minor in Business Administration   San Jose, CA

Relevant Coursework: Network Administration, Intro to Engineering, Intro to Python, Physics II, Analog and Digital Circuits, Into to IoT, Intro to Networks, Calculus, Linear Algebra, Public Speaking, Business Statistics

Technical Skills

Languages: AWS, Azure, GCP, Python, PowerShell, Bash, Docker, Kubernetes, Postman, Linux, VMWare, PuTTY, Wireshark, Cisco Equipment, TCP/IP Protocols, DNS, DHCP, HTTP/HTTPS, SSH, FTP, VPN, VLAN, ISO 27001

Experience

Cisco — **July 2023 – Nov 2023**

Network Engineering Consultant   *Santa Clara, CA*

- Collaborated with over **150 IT professionals and educators** to deliver and analyze workshops on **data literacy, cybersecurity, and generative AI integration**, helping participants identify and configure practical solutions for real-world business use cases.
- Assisted in **designing and facilitating breakout sessions** that improved participants' understanding of **AI-driven productivity tools** and their ethical implications— feedback surveys showed a **92% satisfaction rate** among attendees.
- Contributed to **consulting sessions focused on diagnosing data anomalies and securing large-scale systems**, providing insights on protecting **multi- zetabyte information infrastructures** across modern web ecosystems.
- Networked with professionals from **20+ organizations**, gaining industry perspectives that shaped my interest in **data-driven problem solving and cybersecurity innovation**.

Projects

Integrated IOT Environment | *Python, Ubuntu, Docker, Zigbee*   **Nov 2024 - Present**

- Engineered a **smart home ecosystem** integrating **15+ IoT devices** (Zigbee & Z-Wave) through **Home Assistant and Docker-based microservices**, achieving **95% system uptime** and automated control of lighting, temperature, and security systems.
- Configured and deployed a **custom Home Assistant instance on Raspberry Pi 5**, optimizing resource utilization and creating modular automation scripts in **Python** to streamline device discovery and voice control.
- Continuously expanding the system's capabilities by integrating **cross- protocol Z-Wave extensions** and containerized monitoring tools to improve scalability and fault tolerance.

Certifications

Google: Cybersecurity Professional Certificate | *SQL, Linux, SIEM Tools*   **November 2025**

- Completed a 9-course program emphasizing **enterprise-level** threat detection, incident response, and network defense using **Linux**, **Python**, **SQL**, and **SIEM** tools.
- Applied industry frameworks (NIST, MITRE ATTCK, OWASP to perform vulnerability assessments, log and packet analysis, and security hardening across simulated environments; executed full-cycle incident investigations and remediation strategies

AWS Academy: Cloud Architecting | *EC2, S3, RDS, DynamoDB, Lambda, VPC*   **November 2025**

- Completed AWS Academy's Cloud Architecting coursework covering core AWS services, cloud solution design, and best practices for **reliability, scalability, and cost optimization**.
- Gained hands-on experience with **VPC** design, compute and storage services (EC2, Lambda, S3), IAM governance, load balancing, and **cloud security fundamentals.**

CCNA: Enterprise Networking, Security, and Automation | *Packet Tracer, Ubiquiti*   **March 2025**

- Designed and simulated **enterprise-grade network architectures** using advanced **IPv4/IPv6 routing and Layer 3 switching protocols**, achieving **100% connectivity and redundancy** in complex topologies.

CCNA: Switching, Routing, and Wireless Essentials | *Cisco Networking Academy*   **June 2024**

- Configured and optimized **Layer 2/Layer 3 switches, routers, and wireless LANs** for small-to-medium business infrastructures with **zero packet loss** under test loads.