

KALYAN RAM CHIMMILI

Network & Infrastructure Automation Engineer

Bengaluru, India | kalyanram.chimmili@gmail.com | +91 9036444730 | <https://kalyanramchimmili.github.io>

Network and Infrastructure Automation Engineer with 2 years of experience **designing end-to-end automation platforms**, building **REST APIs**, and integrating enterprise systems to eliminate manual operations. Skilled in **Python, Django, LangChain, PostgreSQL, GitLab CI/CD, Docker, and Nomad**. Demonstrated experience reducing operational effort and improving delivery timelines through automation in financial services.

TECHNICAL SKILLS

Languages: Python, SQL, Terraform.

Networking: DNS, SD-WAN, FortiGate Firewalls, F5 BIG-IP, Arista/CVaaS, Zscaler ZPA, LogicMonitor, TCP/IP, BGP.

Frameworks: Django, Flask.

Databases: Postgres, SQLite, ChromaDB.

AI / ML: Anthropic Claude API, LangChain, MCP, RAG, Microsoft Copilot Studio.

DevOps: GitLab CI/CD, Nomad, Vault, Docker, Puppet, Splunk.

Cloud: AWS.

EXPERIENCE

Associate Network Engineer | IG Group

Sep 2025 – Present | Bengaluru, India

- Took ownership of **NAAS** (Network Automation as a Service) and scaled it from a Flask prototype to a production **Django REST platform** — migrating from SQLite to **PostgreSQL**, replacing manual bearer token auth with Active Directory integration, adding Splunk for observability, and Logic monitor for monitoring.
- Co-developed the **internal IDP catalog platform** with the DevEx team — a Django-based portal consolidating infrastructure automations, self-service tools, API documentation, and custom libraries. Co-maintainer of the repository alongside the lead engineer.
- Designed and delivered Phase 2 **FIX client onboarding** automation — complete ITSM lifecycle covering, **ServiceNow RITM, change management, Forward Networks** pre/post snapshot diff for audit, **Splunk** logging, and NOC notifications. Reduced FIX client time to market from **3 days to intraday**, directly contributing to company revenue.
- Designed and delivered Phase 3 **firewall automation** — server-to-server and app-to-app rule lifecycle with CMDB as source of truth. New VMs provisioned under an existing application are automatically added to the relevant firewall group; decommissioned apps are automatically removed, maintaining tight ACL complexity. Full ITSM workflow for audit and risk compliance. **Reducing 80% of the request** items in the network queue.
- Built **NAASBot**, a production LLM-powered network operations agent using **LangChain** and the Anthropic Claude API, with the Django backend acting as an **MCP client** responsible for executing tools against live infrastructure. Hosted on the internal catalog platform and deployed as a Microsoft Teams bot via **Copilot Studio**.
- Integrated with Forward Networks, Zscaler, and NAAS to act as an **L1 network operations agent** — engineers can **troubleshoot** firewall and VPN access issues, **perform** DNS operations, trigger NAAS workflows, raise ServiceNow incidents with prior conversation context, or **escalate** to NOC via email or raise a snow incident.

Graduate Engineering Trainee | IG Group

Sep 2024 – Sep 2025 | Bengaluru, India

- Managed **day-to-day network operations** across a multi-vendor enterprise estate (Arista/CVaaS, FortiGate SD-WAN, Meraki, F5, ThousandEyes), including VIP creation, DNS management, VLAN provisioning, certificate renewals via Venafi TPP, CVaaS configuration management, and incident response.
- Designed and built an **automated device backup solution** for F5, FortiGate, Infoblox, and Corvil with 30-day retention, notifications, email, and Microsoft Teams. Eliminating all manual backups.

- Built **NAAS DNS automation** APIs (create, delete, update, bulk operations) and drove adoption with the Platforms team by integrating into **decommission** flows, eliminating **120+** monthly manual network operations requests.
- Worked in the Platform team to **standardize CI/CD pipelines**, migrating from Jenkins to GitLab, and migrated **Puppet** packages from WAMPS to JFrog Artifactory.

Summer Research Intern — IIT Bombay | CSERL

May 2022 – Jun 2022 | Remote

- Built a multi-threaded echo client/server in C and an HTTP server with performance testing under the Computer Science and Engineering Research Lab.

PERSONAL PROJECTS

Elucidate — Local RAG Application Python, Flask, ChromaDB, Ollama, Docker

- Fully local PDF question-answering app — **PDF ingestion**, chunking, similarity retrieval, streamed **Ollama** inference, live model switching, persistent vector store. **Dockerised** for cross-platform deployment.
- github.com/kalyanramchimmili/Elucidate

AuthCentre v2 — JWT Auth Service Python, Django, OAuth

- Django-based **JWT** authentication service with access/refresh token rotation, Google and GitHub OAuth, and a developer console for visualizing the auth flow.
- github.com/kalyanramchimmili/AuthCentre

Personal Portfolio — Docusaurus Site Docusaurus, GitHub Actions, Gemini, Python

- Portfolio, projects, and LeetCode documentation site with an **automated pipeline** — accepted solutions pushed via LeetHub, writeups generated via **Gemini**, published to GitHub Pages via **GitHub Actions**.
- kalyanramchimmili.github.io

CERTIFICATIONS

Computer Networks and Internet Protocol — IIT Kharagpur (NPTEL) | Score: 91 | Apr 2024

EDUCATION

B.E. Electronics & Communication Engineering

Dayananda Sagar College of Engineering, VTU

2020 – 2024 | Bengaluru

CGPA: 8.7