

Ryan Madhuwala

AI Infrastructure Engineer | Full Stack & DevOps | Open Source Maintainer

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🐙 GitHub | 🔗 LinkedIn | 🌐 Portfolio | 🐦 X

EDUCATION

Degree	Institute	Score	Year
B.Tech CSE (Dropped Out)	IIIT Gwalior	7.8 CGPA	2023–2025
JEE Mains	NTA	99.1 Percentile	2023

EXPERIENCE

- **Caracal, Founder (Feb 2026–Present):** Building open-source authority infrastructure for secure AI-agent operations; backed by Microsoft for Startups, Vercel OSS Program Spring '26 (30 projects/batch), and Founders, Inc. (<4% acceptance).
- **GitHub Secure Open Source Fund '26:** Selected among the top 30 open-source projects globally alongside FastAPI, LangChain, and ONNX, working directly with GitHub's security team.
- **LF Decentralized Trust, Lab Leader (Sep 2025–Present):** Youngest-ever Linux Foundation lab leader (age 20); lead maintainers across multiple infrastructure projects; Speaker at multiple Open Source Summit, LFX Mentor '26 for Caracal.
- **GitMesh, Creator (Jul 2025–Mar 2026):** Built and scaled an LFDT-backed developer platform to 100+ GitHub stars; adopted by contributors across CNCF (Jaeger, Krkn, Cartography), the Linux Kernel, and Intel Open Source. Acquired.
- **Linux Foundation, AI Engineer Intern, LFX '25 (Jun–Nov 2025):** Drove multi-agent architecture, vector retrieval, and context memory for AIFAQ at Hyperledger Labs.
- **DRDO (Defense Ministry of India), AI Research Intern (May–Jul 2025):** Proposed a novel Entanglement-Assisted Quantum Genetic Algorithm (EAQGA) optimizing mining operations for India's Defense Ministry.
- **DeepLearning.AI, GANs Mentor (Jun–Sep 2025):** Mentored global learners through the GAN Specialization, providing guidance and debugging support.
- **AIPlato inc., NLP Intern (May–July 2024):** Built NLP systems and an AI RAG system using AI frameworks, AI vector databases, and data science.

KEY PROJECTS

- **Caracal:** Authority, not credentials, for AI agents: policy-approved actions, delegation that can only narrow, instant

revocation, tamper-evident audit. Go, TypeScript, Python, OPA, Kubernetes, Terraform, PostgreSQL, Redis.

- **GitMesh (Now under LF Decentralized Trust):** Capacity-aware product-intelligence layer connecting customer signals to engineering work, synced with existing tech stacks. TypeScript, Vue, Python, Docker, Terraform, GCP, AWS.

SKILLS

- **Languages:** Go, Python, TypeScript, SQL, Bash
- **AI Systems:** LangGraph, CrewAI, RAG, Multi-Agent Systems, Qdrant, Mem0, AI Security
- **Infra & DevOps:** Docker, Kubernetes, Terraform, OPA, AWS, GCP, Azure, Linux, CI/CD
- **Backend & Data:** FastAPI, Node.js, PostgreSQL, Redis, MongoDB, OpenSearch, Neo4j
- **Frontend:** React, Next.js, Tailwind CSS, Vue

ACHIEVEMENTS

- **Smart India Hackathon 2026:** Winner
- **Walmart Sparkathon 2025:** Finalist
- **Innovation, Design & Entrepreneurship 2025:** Best Pitch
- **Patent (Applied):** Lead inventor, Multi-Modal AI Surveillance System (App. No. 202521020743)

TALKS & COMMUNITY

- **Speaker/Attendee:** Open Source Summit KR '25, NA '26
- **Conferences:** OpenSearchCon Korea '25 & China '26
- **GitHub:** Invite-only Maintainer Summit 2026; Open Source Friday
- **Organizer:** Co-organizer, OpenSearch User Group Ahmedabad

Last updated: July 17, 2026