

# RONIT RAJ

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## Education

Indian Institute of Information Technology and Management, Gwalior

Aug 2023 – May 2027

B.Tech in Mathematics and Scientific Computing — CGPA: 8.35

Gwalior, MP

– **Coursework:** DBMS, Operating Systems, Computer Networks, Data Structures & Algorithms, OOP.

## Experience

GitMesh ([gitmesh.dev](https://gitmesh.dev)) — [GitHub](#)

July 2025 – Present

Core Maintainer (Open Source – LF Decentralized Trust Lab)

Remote

– Co-architected intelligence platform aggregating **5 data sources** via **RAG + Qdrant + FastEmbed** with **30+ API endpoints**, OAuth 2.0, WebSocket updates on Docker/Cloud Run; scaled to **131 stars**, **31 forks**, **OpenSSF Silver** certified.

C3iHub, IIT Kanpur ([PARAM](#))

Aug – Oct 2025

Full-Stack Developer Intern

Remote

– Built full-stack features for **PARAM**, a blockchain-based academic credential management system; deployed **ERC-721 NFT credentials** on **Base Sepolia** for tamper-proof records; integrated **3+ smart contracts** and contributed CI/CD automation for production deployments.

Ionia ([GitHub](#))

Jan – Mar 2025

Freelance Full-Stack Developer

Remote

– Built end-to-end exam-prep platform (Node.js, REST APIs) with **Admin Panel** for test, question, and user management; modelled **PostgreSQL** schema for nested question banks with role-based access control; ran successful pilot with **50+ active students**.

Zentoro AI

Nov 2024 – Aug 2025

Core Engineer

Gwalior, MP

– Built AI SaaS MVP with multi-agent orchestration (15+ agents), exponential-backoff retries with per-agent timeouts to prevent cascading failures across 15+ external API calls; acquired **650 visitors / 44 countries** and **20+ waitlist sign-ups** in 25 days.

## Projects

**TypeNad: On-Chain PvP Typing Arena** | *Next.js, TypeScript, Solidity, Monad, PostgreSQL, NodeOpsHQ*

2025

– Built competitive PvP typing game on **Monad blockchain** with **staking mechanics** — real-time 1v1 duels where speed and accuracy determine winners; leveraged **Monad's high-throughput architecture** for low-latency on-chain transaction settlement; deployed on **NodeOpsHQ**. [[GitHub](#)]

**GeneTrust: AI Bioinformatics Platform** | *Python, FastAPI, DNABERT, Blockchain, GCP*

Apr 2025

– **DNABERT** gene-sequence prediction at **97% accuracy**; blockchain notarization for immutable audit trails; **2.5× cold-start improvement** via GCP Cloud Run.

**ShaktiAI** — *SHAKTI-2B* | *mPLUG-Owl3, MS-SWIFT, RAG, FastAPI, Redis*

Dec 2024

– Fine-tuned **mPLUG-Owl3** (SHAKTI-2B): VQAv2 **80.1**, POPE **87.4**, NextQA **73.6**, NLVR2 **85.6**; OCR (**95%/65%**); Redis batching cut inference queue **2.5×** on 4GB VRAM in **40-hour** sprint (SIH 2024 Winner).

## Patent

**A MULTI-MODAL SURVEILLANCE SYSTEM (Pending)** [[PDF](#)]

Mar 2025

Indian Application No: 202521020743 — SSR Ref. 402645

Author

– Fused ViT (**400M params**, 27L) + NLP (**1.7B params**, 28L) for real-time traffic analysis; scored **92/100** on COCO/BDD100K; edge-deployed with **2-hour** battery life on consumer hardware.

## Technical Skills

**Languages:** C++ (competitive programming), Python, SQL, TypeScript, JavaScript, NextJS

**Cloud/DevOps:** AWS, GCP, Docker, Kubernetes (CRD/Helm), Git, Linux/Unix, CI/CD

**Databases:** PostgreSQL, MongoDB, MySQL, Redis, Qdrant (Vector DB), Pinecone

**AI/ML & Backend:** RAG Pipelines, PyTorch, HuggingFace Transformers, FastAPI, Multi-Agent Systems

## Achievements

- **Competitive Programming:** **400+** problems on LeetCode & CSES in **C++** — graphs, DP, segment trees, divide-and-conquer.
- **Kagent/Solo.io [PR #902]:** Added CPU/memory config for **10 MCP agents**; modified core CRD (agent\_types.go) + **13** Helm components for production Kubernetes AI orchestration.
- **Winner, LNMHacks 8.0:** TypeNad — PvP staking game on Monad blockchain (**\$600**). [[Link](#)]
- **1st Prize, HackHazards '25:** GeneTrust AI-CRISPR platform, **15,000+** participants. [[Link](#)]
- **Winner, SIH 2024 (PS1604):** SHAKTI multimodal military AI — VQAv2 **80.1**, POPE **87.4**, NextQA **73.6**, NLVR2 **85.6**. [[Link](#)]
- **2nd Place, Trillion Dollar GenAI 2025:** LegalEase AI; winner at ISRO, MEESHO, 5G events. [[Link](#)]
- **Amazon ML Summer School Mentee '25 | Founded Enigma Society:** **5+** events, **200+** students | Ionia → CrftHQ Finals (angel investor pitch).