

# 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: 8.44

Gwalior, MP

- **Relevant Coursework:** Database Management Systems (DBMS), Operating Systems (Linux Internals), Computer Networks, Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP).

## Experience

GitMesh ([gitmesh.dev](https://gitmesh.dev))

July 2025 – Sept 2025

Maintainer (Open Source)

Remote

- Architected an **Agentic Workflow** system for open-source collaboration using **RAG** and **Qdrant Vector Database**. Automated contributor matching and branch intelligence, achieving **114+ GitHub stars** and **LFDT Foundation** listing.
- Engineered an enterprise-grade search pipeline using **FastAPI** and **Vector Embeddings**. Deployed microservices on **Linux-based** cloud instances (AWS EC2), ensuring scalability for concurrent requests.

Ionia ([ionia.sbs](https://ionia.sbs))

Jan 2025 – Mar 2025

AI Engineer

Remote

- Launched a scalable exam-prep platform using **Node.js**, **REST APIs**, and secure authentication, serving **100+ active students**.
- Reduced API latency by **20%** by leveraging **Redis caching strategies** and optimizing database queries. **Crafted** responsive dashboards for real-time progress tracking, significantly boosting user engagement.

Zentoro AI ([garudexlabs.com](https://garudexlabs.com))

Nov 2024 – Aug 2025

Core Engineer

Gwalior, MP

- **Developed** an autonomous AI-driven SaaS MVP using Agile methodologies to streamline end-to-end startup operations, from ideation to product launch.
- **Devised** a **Multi-Agent Orchestration** system integrating proprietary AI managers with **15+ global execution agents** to optimize workflows. Attracted 650 visitors from 44 countries and 20+ waitlist sign-ups in 25 days.

## Projects

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

Apr 2025

- Engineered a **Bioinformatics** platform using **DNABERT** transformers for gene sequence prediction, achieving **97% accuracy** on 100+ genomic records (**Tailored** for Oracle Health/Cerner integration).
- Integrated secure healthcare data handling using **Blockchain** for data notarization, ensuring immutable audit trails and reducing API latency by 20% via **GCP CI/CD** pipelines.

**ShaktiAI: Military AI System** | *Next.js, FastAPI, PyTorch, Redis*

Nov 2024

- Implemented a scalable web application achieving 79% VQA accuracy for multi-modal (image/video) reasoning.
- Optimized **REST API** latency by 20% using **Redis caching**, enabling secure, low-memory deployment (8GB RAM).

## Patent

**A MULTI-MODAL SURVEILLANCE SYSTEM**

Mar 2025

Indian Application No: 202521020743 — SSR Ref: 402645

Author

## Technical Skills

**Languages:** C++, Python, FastAPI, SQL, TypeScript, JavaScript, NextJS, HTML/CSS

**Cloud/DevOps:** Oracle Cloud (OCI) Concepts, AWS, Docker, Kubernetes, Git, Linux/Unix, CI/CD

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

**AI/ML:** Generative AI, RAG Pipelines, LLMs, PyTorch, TensorFlow, LangChain, Multi-Agent Systems

**Design/UI:** Canva, Figma

## Achievements

- **1st Prize, HackHazards '25:** Pioneered GeneTrust AI-powered CRISPR platform out of **15,000+** participants. [\[Link\]](#)
- **Special Winner, Smart India Hackathon 2024:** Devised scalable AI-driven web solution. [\[Link\]](#)
- **2nd Place, Trillion Dollar GenAI 2025:** Co-created LegalEase AI tool. Winner at ISRO, MEESHO, 5G events. [\[Link\]](#)
- **Amazon ML Summer School Mentee '25:** Selected for Amazon's exclusive machine learning program.
- **Founded The Enigma Society:** Led 5+ events on blockchain and AI, engaging 200+ students.
- **Advanced Ionia to CrftHQ finals:** Pitched scalable exam-prep platform to angel investors.