

# Garvit Galgat

Software Engineer at Oracle | IIT Indore

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## EXPERIENCE

- Oracle India Private Limited** Jun 2023 – Present  
*Member of Technical Staff — Oracle Unified Directory (OUD)* Bangalore, India
  - Improved query throughput by **25%** for deployments with **10M+ directory entries** through indexing, caching, and filter-evaluation optimizations.
  - Remediated multiple **CVSS 8.0+ vulnerabilities** in OUD's core code, developing controlled proof-of-concept exploits to assess exploitability and verify selected fixes.
  - Built an AI-assisted framework to **generate and validate functional tests**, combining rule synthesis with tool-calling workflows for test orchestration.
  - Resolved **concurrency, memory-management, and replication issues** in distributed OUD deployments and contributed to cross-team delivery of the OUD 14c release.
- Oracle India Private Limited** May 2022 – Jul 2022  
*Software Engineer Intern*
  - Built Oracle BI diagnostic tooling (Revelio Utility), reducing bundle size by **40%** with GZIP compression and protecting diagnostic data with AES encryption.
  - Developed a Python parser to analyze logs and inspect configurations for P1/P2 incidents, reducing debugging time by **25%**.

## PROJECTS

- PanOph — Ophthalmology Learning Platform** Mar 2026  
*Web, Mobile, Payments & Content Publishing* panoph.com
  - Built PanOph end to end with Next.js, Flutter, and admin, review, and creator portals. As of September 2026: **2,000+ registered users**, **150+ paid customers**, averaging approximately **100 daily active users**.
  - Unified **web and mobile subscription access** on Cloudflare Workers, using durable payment-event processing, deduplication, and **reconciliation** to detect and recover from payment-access mismatches.
  - Built a **versioned content-publishing workflow** for reviewers to edit structured content, compare revisions, review image submissions, and approve content before publication.
  - Built **operational tools** to investigate payment failures, monitor system health and user activity, and track revenue, creator referrals, and conversions.
- Telecraft Labs — AI Text-to-Video Platform** Jan – Feb 2025  
*Automated Video Generation & Serverless Processing* Website
  - Built a scene-based **text-to-video pipeline** with Python, LangChain, and FFmpeg, combining ElevenLabs narration and ImagineArt visuals with configurable transitions and music.
  - Replaced an always-on EC2 deployment with **event-driven AWS Lambda processing**, S3 storage, and CloudWatch monitoring, reducing monthly infrastructure costs by **95%** (\$120 to \$6).
  - Published **80+ generated videos** on YouTube, accumulating **15K+ views**.
- FpInvest — Automated Financial Modeling Platform** Jan – Mar 2026  
*Financial Modeling & Auditable AI Workflows* Website
  - Built a Python/LangChain workflow to parse earnings reports, propagate changes across company dependencies using **knowledge graphs**, and export **Excel model changes with audit trails**.

## TECHNICAL SKILLS

- Languages & Frameworks:** Java, Python, TypeScript/JavaScript, SQL, C++, React, Next.js, Flutter, LangChain
- Backend & Systems:** Node.js, REST APIs, distributed systems, payment integrations, webhooks, LDAP
- Databases & Storage:** Cloudflare D1 (SQLite), MongoDB, Redis, Firebase (Firestore), Cloudflare R2
- Cloud & Infrastructure:** Cloudflare Workers, AWS (Lambda, EC2, S3, CloudWatch), Docker, Jenkins, Linux

## EDUCATION

**Indian Institute of Technology Indore**  
B.Tech. in Computer Science and Engineering

2019–2023  
CGPA: 8.35/10