

CHIRAG DAVE

Software Engineer: AI Agents and Evaluation Systems

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Education

Pune Institute of Computer Technology

Bachelor of Technology in Electronics And Telecommunication

Nov. 2022 – Present

Pune, Maharashtra

Experience

FutureAGI

Feb 2026 – Present

Software Engineering Intern (Python, Django, DRF, React, Temporal, PostgreSQL, Docker)

Bangalore, India

- Built and owned **Voice Observe to Simulate**, replaying **production voice calls** as test scenarios with baseline-vs-replay comparison, cutting customer QA cycles by **40%** across **80+ enterprise accounts**.
- Architected native **LiveKit/WebRTC voice infrastructure** with **Temporal** audio-bridge workflows, SIP/Twilio telephony, and credential isolation, dropping call-connect latency from **900ms to under 300ms** at **200+ concurrent calls**.
- Led migration of **chat simulations** off a third-party vendor onto an in-house service, **cutting per-run cost by 65%** and removing outage risk affecting **15,000+ daily runs**.
- Drove backend **performance, security, and RBAC** across Django/DRF, with DB indexing that **cut load times from 8s to under 1s**, **SSRF** hardening, and a 2FA token-cache fix preventing forced logouts for **10,000+ users**.

Grapevine Round1 AI

Jul 2025 – Jan 2026

Software Engineering Intern (Python, Django, React Native, PostgreSQL, Next.js)

Bangalore, India

- Built and owned **ReadyAI**, an AI mock interview preparation app from zero to scale, shipping in **60 days** and growing to **50,000+ users** with a **2-engineer team**.
- Designed the **AI interview and AI-vs-AI generation systems**, handling **real-time audio, automated evaluation**, feedback, and content generation at scale.
- Migrated **5M+ production records** from MongoDB to ClickHouse, unlocking **10× faster analytics** with minimal downtime.
- Built the **Grapevine Moderator Dashboard** handling **1,000+ posts/day**, integrating **LLM-based auto-moderation** with **human review workflows**, enabling **20+ moderators** to operate efficiently.

Open Source Contributions

FlowiseAI | [GitHub](#)

Oct 2024

- * Implemented new **LLM provider integrations (JinaAI, Alibaba Tongyi)** and fixed **OpenAI compatibility issues** in a **47k+ star** LLM workflow engine used to build agent and **RAG pipelines**.

OpenMS | [GitHub](#)

Mar 2025

- * Improved **Streamlit-based mass spectrometry workflows** by fixing **workspace handling** and adding **workspace support** in a **500+ star** open-source project.

Projects

HackScrapped | [Live](#)

Jan 2025

- * Built and launched a hackathon discovery platform aggregating listings from major websites into one product, using **Cheerio** for lightweight HTML parsing and **Puppeteer** for JavaScript-heavy pages.
- * Refreshed listings through scheduled scraping jobs with **Redis caching** to cut repeated scraping and database work, tolerating changing page structures, duplicate listings, and refresh failures.
- * Grew to **12,000+ users in 30 days**, sustaining **500+ MAUs**; ranked **#1 on Peerlist (Week 9, 2025)** with **110K Twitter impressions** and **2,000+ likes** at launch.

MealMonk | [Live](#)

Apr 2026

- * Built a production subscription cloud-kitchen platform (Next.js 16, Supabase, Razorpay) serving **100+ users with live payments**: subscription plans with meal accounting and carry-forward, an enforced order state machine with skip cutoffs, and HMAC-verified Razorpay payments with signed webhooks.
- * Shipped a full admin suite for menus, pricing, delivery operations, offline-customer management, GSTIN invoices, and revenue and meal-popularity analytics, with a dual online/cash customer model where offline customers auto-link to accounts on signup.

AI Media Strategy System (Performena)

Mar 2026

- * Built an industry-sponsored AI media-brief generator for **Performena** that turned a **2–3 hour** manual workflow into one **3 minute** pipeline (**97% faster**), combining web research (Jina AI), LLM synthesis (Groq/LLaMA 3 70B), and automated PPTX/PDF/DOCX generation.
- * Designed for unreliable web data: hybrid model + **Regex fallback** extraction reaching reported **100% extraction reliability** and **95%+ task success**, with **25+ structured sections** (SWOT, budgets, KPIs, channels, timelines) per brief.
- * Controlled API spend with **Redis caching** (**60% hit rate**, **70% lower API cost**); presented at **PEIS 2026** (NIT Uttarakhand).

RankQ | [GitHub](#)

2026

- * Engineered a realtime competitive leaderboard designed for **125,000 games/minute** and up to **1M users**, using Redis Sorted Sets with **atomic Lua-based dense and tie-aware ranking** under concurrent writes.
- * Separated workloads: Redis for the hot realtime ranking path (**300ms** refresh, **100-entry** pagination), PostgreSQL for recovery, backups, and trigram username search; added simulation controls to exercise high-frequency updates without live traffic.

Placement Predictor | [Live](#)

June 2025

- * Built an AI-driven placement platform used by **600+ students**, aggregating coding-profile, GitHub, academic, skills, and experience signals with **4 years** of placement data.
- * Scored company-specific eligibility, assessment, interview, and package outcomes across **500+ companies**, with rule-based fallback scoring when AI/API calls failed and shareable result cards.

Technical Skills

- **Languages:** C, C++, Python, TypeScript, JavaScript, SQL
- **Backend Systems:** Distributed Systems, High-Load Backend Architecture, Microservices, AI Pipelines, Workflow Orchestration (Temporal), Real-Time Audio/WebRTC, Multithreading
- **Framework & Tools:** Django, DRF, Next.js, Node.js, Express, React, LangChain, Docker, Redis, Git, Linux
- **Databases:** ClickHouse, MongoDB, PostgreSQL

Volunteering

PICT CSI Student Branch & OSS Community

Chief Technical Head & Chief Marketing Officer

May 2025 – Present

Pune, Maharashtra