

CHIRAG DAVE

Software Engineer: AI and Scalable Web 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** end-to-end - **Temporal** audio-bridge workflows, SIP/Twilio telephony, credential isolation - dropping call-connect latency from **900ms to under 300ms** at **2,000+ 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 an outage risk affecting **15,000+ daily runs**.
- Drove backend **performance, security, and RBAC** across Django/DRF - workspace-scoped **role-based access control**, 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 scaled a scraping-driven platform to **12,000+ users in 30 days**, sustaining **500+ MAUs** via automated data refresh.
- * Engineered a cron-based Puppeteer scraping system refreshing data every **6 hours** with zero manual intervention.

Multithreaded Proxy Web Server (C) | [GitHub](#)

Dec 2024

- * Built a high-performance HTTP proxy with caching using **POSIX threads**, optimized for concurrent client handling.
- * Implemented socket-level networking and multithreading to handle parallel requests under load.

XpressPrints | [Live](#)

Nov 2024

- * Built and deployed a production e-commerce platform for a printing business, actively onboarding **paying customers**.
- * Implemented automated order processing, analytics dashboard, and payments using **Razorpay + Shiprocket**.

PCSB Xenia'25 Platform | [Live](#)

Feb 2025

- * Led engineering for a tech fest platform supporting **500+ registrations** and **4,000+ visits** during launch week.
- * Designed frontend and backend to remain stable under peak launch traffic.

Placement Predictor | [Live](#)

June 2025

- * Built an **AI-driven placement prediction platform** used by **800+ students**, estimating eligibility, interview success, and expected package range using real placement data and coding profiles.

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