Arnav Panicker

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Experience

ASDE, Swiggy Jun 2026 - Present

- Building an **AI-assisted field operations platform** converting surveys, photos, and videos into structured issues, automated reports, and **action items**, owning features end to end.
- Built **distributed multimodal issue extraction and routing workflows** that map operational exceptions and supporting evidence to **responsible teams**.
- Built an **offer-to-onboarding automation platform** for Swiggy's entire TA team, integrating SmartRecruiters, e-signing, and SuccessFactors; automated employee creation and document sync, with **1,000+ offers sent so far**.

Software Development Engineer Intern, GenAI, Swiggy Apr 2025 - Jun 2026

- Built **TalentParse**, a distributed Python recruitment service processing **500+ CVs concurrently** using FAISS retrieval, rerankers, GPT-4.1 extraction, and structured scoring APIs; reduced shortlisting time by **95%**.
- Implemented a **real-time AI policy assistant** using FastAPI, WebSockets, OpenAI Realtime API, and source-attributed retrieval across **100+ governed documents**; reduced query-resolution time by **95%**.
- Developed **PULSE** with PostgreSQL, Redis, and scheduled analysis workflows, transforming pulse and exit-interview data into themes, sentiment, and exit-risk signals for **approximately 100 managers**.
- Built an automated evaluation pipeline for a vendor-built RAG assistant, combining Playwright-driven browser testing with RAGAS metrics to benchmark retrieval quality and detect grounding failures before release.

Data Analytics Intern, EY Jun 2025 - Jul 2025

- Designed API integration specifications for reconciliation, FX-rate ingestion, and NAV feeds, defining schemas, validation, alerting, and failure handling for institutional workflows.
- Built an investment dashboard with real-time NAV feeds and automated alerts.

Data Analysis and Scripting Intern, VuNet Systems Jun 2024 - Jul 2024

- Built Python telemetry pipelines, Grafana dashboards, and automated alerts that improved RCA accuracy and support-ticket triage efficiency by **60%** across **50+ client environments**.
- Analyzed MTTD, MTTR, and P1-P3 incident trends to surface recurring failure patterns and monitoring gaps across distributed client infrastructure.

Projects

- **Pingwin - Safe Remote Server and File Manager:** Building a desktop app for managing remote servers and files over **SFTP, FTP/FTPS, WebDAV, and encrypted SMB3**, with an **interactive SSH terminal** on SFTP. **Approval-first safety: every write needs approval**, originals kept as recovery copies, transfers verified with **SHA-256**. **Local Ollama AI assistant** suggests edits and commands but cannot run or approve anything. React + Tauri UI, Rust controller and transfer queue, Java layer enforcing safety rules over Cyberduck libraries.
- **Desire Paths - Code Ownership and Review Routing Agent:** Built a graph agent on FalkorDB that maps real code ownership and review history, routes PRs with recency-decayed fit plus **max-flow load balancing**, and acts on approval (request reviewers, pave CODEOWNERS). Backtested on 300 merged PRs: top-two picks included the real reviewer **77%** of the time on FalkorDB vs 0% for CODEOWNERS, **44%** vs 26% on Airflow. [live]
- **MOZAIC - Observability and Anomaly Intelligence:** Built MCP servers for Kubernetes, Sentry, CloudWatch, and Grafana plus an orchestrator that normalizes telemetry, correlates incidents, and runs an SBERT + HDBSCAN + LLM-labelling pipeline for incidents. [code]

Technical Skills

Languages: C, Java, Python, JavaScript, TypeScript, SQL

Backend & Data Systems: FastAPI, Node.js, Express.js, Flask, REST APIs, WebSockets, distributed systems, cloud applications, PostgreSQL, MySQL, Redis, Docker, GitHub Actions, Linux, Grafana, SAML SSO

Platform & Engineering: API design, distributed systems design, end-to-end feature ownership, third-party integrations, CI/CD, observability, authentication, debugging, code reviews, unit testing

AI & Agent Systems: AI-assisted development, RAG, LLM evaluation, prompt engineering, context engineering, MCP, FAISS, Pinecone, OpenClaw, Claude Code, Codex, Cursor

Machine Learning: PyTorch, Scikit-learn, Pandas, NumPy, NLP, Computer Vision

Education

DJ Sanghvi College of Engineering, Mumbai – B.Tech, Computer Engineering; CGPA: 9.29/10 Nov 2022 - Jun 2026

Open Source, Leadership & Awards

- **Open Source: Merged work into psf/black, OpenClaw, Interledger, wasmCloud, Kestra, etc.**
- Co-Chairperson, DJS Synapse AI/ML Club: led a **60+ member** committee, organized a national hackathon with **2,000+ registrations**, mentored **25+ juniors**.
- Awards: Winner, PICT TechFiesta; 2nd Runner-Up, Swiggy GenAI Hackathon & EY CAFTA; Top 5, Bajaj Finserv Flex-it-out; Runner-Up, GDSC Winter of Code.