

ADITI VASHISHTHA

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SUMMARY

Final-year Kalvium Software Product Engineering Program (4-year Manipal University Jaipur) building full-stack and applied AI systems. Four live apps shipped solo, architecture through deployment, plus an open-source agentic tool with published evaluation results. Seeking an SDE / GenAI internship from September 2026.

PROJECTS

DocuMind — Production RAG Application · Solo · Live · Shipped June 2026 · [Live](#) · [Web](#) · [API](#)

Stack: Next.js 15 · TypeScript · FastAPI · PostgreSQL + pgvector · Supabase · OpenAI API · Langfuse · Vercel · Railway

- Document Q&A platform serving real users, built end to end from architecture through deployment.
- Hybrid retrieval: PostgreSQL full-text search fused with pgvector (HNSW) semantic search via Reciprocal Rank Fusion.
- Validated retrieval against a 27-question eval set: keyword-only reached 48% top-1 recall while dense and hybrid+RRF both saturated at 100%. Kept hybrid as insurance for exact-term and acronym queries the set was too easy to separate.
- Production hardening: PDF byte-validation, per-IP rate limiting, global daily cost cap, ephemeral storage with auto-delete after 30 min (pg_cron), and on-demand delete with user privacy controls.

a11y Agent — Accessibility Detect→Fix→Verify Agent · Solo · Shipped July 2026 · MIT · [GitHub](#)

Stack: Python · Playwright · axe-core · OpenAI GPT-4o-mini (text + vision)

- Resolves 73–76% of targeted accessibility violations across four live sites: scans a page, proposes context-aware fixes for four issue types, re-scans to confirm each cleared, and retries once with the axe error as feedback before failing.
- LLM does judgment only; axe-core owns detection and verification, so the model never decides what is broken or whether its own fix worked. Deterministic contrast fixes act as a control case and caught two real pipeline bugs.
- Reports three verification tiers separately — deterministic re-scan, attribute presence, and vision-model quality judge — instead of collapsing them into one misleading aggregate.

Familiar — Blogging & Publishing Platform · Solo · Live · Shipped July 2026 · [Live](#) · [GitHub](#)

Stack: React · Node.js · Express · MongoDB · JWT · Passport (Google OAuth) · Resend · Vercel · Render

- Full-stack platform (rich-text editor, infinite feed, threaded comments, follows, in-app notifications) with a complete auth surface: JWT sessions, Google OAuth with account linking, email verification, and single-use expiring password reset.
- Auth endpoints return uniform responses regardless of whether an account exists, preventing user enumeration; notifications are created server-side and isolated by design, so a failed notification never breaks the like or comment that triggered it.

Cafe Scrapbook — AI-Powered Cafe Discovery · Solo · Live · [Live](#) · [GitHub](#)

- Cafe discovery app for Jaipur: 44 curated venues with GPT-4o-mini natural-language search (Gemini fallback) and Bayesian ranking to surface quality signals over raw star ratings. React 19 · Tailwind · Vercel.

ASCI 2025 Conference Website · Solo · Production · asciconference.in · [GitHub](#)

- Official live site for an international academic conference at Manipal University Jaipur — multi-page React architecture, responsive carousels, scroll-triggered animations. React · Vite · React Router.

EXPERIENCE

Software Engineering Intern · Indraprastha Power Generation & Pragati Power Corporation (Govt. of NCT, Delhi)

Jun 2026 – Aug 2026 · IT Department (GM Tech-IT)

TECHNICAL SKILLS

Languages — Python, TypeScript, JavaScript, SQL, C++

Frontend — React, Next.js, Tailwind CSS

Backend — FastAPI, Node.js, Express, SSE streaming, JWT, OAuth 2.0

Databases — PostgreSQL (pgvector, HNSW), MongoDB, MySQL, Supabase

AI / Retrieval — RAG, hybrid retrieval, Reciprocal Rank Fusion, OpenAI API, Gemini, Langfuse

Tools — Git, Playwright, axe-core, Vercel, Railway, Render

EDUCATION

Kalvium Software Product Engineering Program

Manipal University Jaipur

2023 – 2027