Sachin Sindhe

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Professional Summary

Computer Science student graduating in 2027 with experience building backend systems, AI workflows and cloud-deployed applications. Experienced with Python, TypeScript, REST APIs, PostgreSQL, Docker, testing and production-style deployment, targeting software, backend and applied AI roles.

Work Experience

KPMG Digital Lighthouse **Jul 2025 – Sep 2025**
Software Engineering Intern *Bengaluru, India*

- Automated 4 manual steps in the GitHub–Jira developer workflow (ticket creation, status sync, PR linking), cutting a manual process from approximately 15 minutes to under 2 minutes per ticket
- Engineered FastAPI-based multi-agent orchestration (CrewAI, custom MCP servers) integrating GitHub and Jira REST APIs, intent routing, parameter validation, and NeonDB-backed contextual memory to reliably execute multi-step developer requests from natural-language input
- Owned full-stack integration and deployment across Next.js, FastAPI, Vercel, Railway, and NeonDB, implementing authentication, persistent chat history, and frontend–backend API communication; shipped in 4 iterations over 10 weeks to a 8-engineer pilot

Projects

Sharebite | *Next.js, TypeScript, Supabase, Google Maps, Vercel* **2026**

- Built and deployed a paid client-facing food redistribution platform now serving 50+ donors, NGOs and delivery partners with role-based portals for donors, NGOs and delivery partners, supporting donation management, matching, live tracking and food-safety validation
- Integrated AI assistance, donation-zone predictions, analytics, routing and cross-role Supabase workflows

RepoLens | *FastAPI, PostgreSQL, pgvector, Docker, pytest* **Feb 2026**

- Built a codebase Q&A tool that answers natural-language questions across repositories too large to read manually, indexed 27 repositories spanning 11.4k files and 2.14M LOC into 60.4k semantic chunks, returning file-and-line-cited answers in 8.6s median latency across 37 production responses
- Implemented metadata-aware chunking and pgvector top-5 semantic retrieval over 60.4k chunks, with grounded citations and Gemini/ADK plus extractive-RAG fallbacks for model or quota failures

ForkLab | *Next.js, TypeScript, BrowserPod, AI Agents, GitHub MCP* **May 2026**

- Built a hackathon-winning parallel AI sandbox that orchestrates isolated BrowserPod environments to generate, test and compare software solutions safely
- Designed A/B frontend testing and parallel GitHub issue-fixing workflows where LLMs plan changes, sandboxes execute them and humans review proof before approval

Online Auction Platform | Flask, PostgreSQL, Docker, GitHub Actions **2024**

- Built a three-tier system with role-based access control and real-time bidding over REST endpoints and a relational schema
- Implemented CI/CD (GitHub Actions, Docker) with 95% test coverage across unit and integration tests; delivered in a five-person Scrum team

SAM2 Adverse-Weather Robustness Evaluation | *Python, PyTorch, CUDA, OpenCV* **2025 – 2026**

- Built a GPU-based pipeline measuring SAM2's zero-shot robustness across 75 clean-corrupted urban-driving image pairs using IoU, Dice, mask matching and foreground-preservation metrics
- Identified frost and severe snow as the largest degradation sources; added resumable inference, SHA-256 run signatures, structured logging, overlays and unit-tested evaluation utilities

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, SQL, C/C++
Backend & Data: FastAPI, Flask, REST APIs, PostgreSQL, Supabase, pgvector
Frontend: Next.js, React, Tailwind CSS, HTML, CSS
AI/ML: PyTorch, SAM2, RAG, embeddings, LLM integration, Gemini API, OpenAI API
DevOps & Practices: Docker, GitHub Actions, CI/CD, Git, Linux, Vercel, Railway, unit/integration testing, debugging, Agile/Scrum

Education

University of Leeds **Sep 2023 – Aug 2027**
MEng Computer Science (Integrated Master's) – Predicted First-Class Honours *Leeds, UK*

- Relevant modules: Data Structures & Algorithms, Computer Architecture, Machine Learning, Artificial Intelligence, Databases, Operating Systems, Networks, Cryptography, Parallel Computation, Web Development, Secure Computing

Certifications

Prompt Engineering for AI – Udemy (2026) | **Red Hat Student Bootcamp** – Red Hat (Aug 2026) | **Oracle Agentic AI Foundations** – Oracle (2026) | **Model Context Protocol** – Anthropic Academy (2026) | **AWS Cloud Practitioner Essentials** – AWS (2026) | **HPE Software Engineering Job Simulation** – Forage (2026)