

Avadhut Kaskar

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EDUCATION

Smt. Indira Gandhi College of Engineering <i>BE in Computer Engineering</i> Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Object-Oriented Programming	August 2023 – May 2027 GPA: 8.7 / 10
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EXPERIENCE

Open Source Contributor — Lamatic AI (AgentKit) PR #295 <i>Remote</i> - Built and contributed an AI-powered kit to Lamatic AgentKit that crawls submitted GitHub repos, extracts tech stack via LLM, and matches builders to sponsors using automated reasoning. - Designed a multi-step orchestration flow (web scraping → structured extraction → database query → AI matching → persistence) integrated with a Next.js frontend. - Followed strict open-source contribution standards for config schema, flow structure, and deployment configuration in a 170+ star public repository.	Jul 2026
Open Source Software Engineering — Odysseus (AI Agent Workflow) <i>Remote</i> - Implemented backend optimization for UI timing by replacing static delays with dynamic character-length formulas, improving UX and readability across high-frequency notifications. - Enhanced codebase maintainability by navigating complex PR workflows and multi-round reviews in a large-scale codebase with strict architectural standards. - Caught and reverted an unrelated security issue (suspicious docker-compose.yml change) during code review before submitting the PR.	June 2025 – Present

PROJECTS

PR Synthesizer GitHub <i>Node.js · Python · FastAPI · PostgreSQL · pgvector · Redis · BullMQ · React · Docker · A2A Protocol · Gemini · OpenRouter</i> - Architected a production-grade multi-agent GenAI system using the A2A protocol (JSON-RPC 2.0) to automate security, database, and performance audits, resolving 10+ critical issues across repositories. - Engineered a high-fidelity RAG pipeline with pgvector (HNSW indexing, 3072-dim embeddings), enabling agents to perform deep codebase analysis beyond generic LLM warnings. - Optimized async processing with BullMQ and Redis, ensuring sub-100ms webhook response times, and added automatic OpenRouter → Gemini fallback for 100% review completion reliability. - Packaged all 7 services (orchestrator, 3 agents, Postgres + pgvector, Redis, React dashboard) in a single docker-compose.yml, reducing setup from 30+ minutes to a single command.	2025
Emergency Response Coordination System GitHub Demo <i>React · Node.js · Express · Supabase · Render</i> - Applied rigorous system design principles to build a scalable emergency dispatch MVP, managing complex incident lifecycles from citizen reporting to real-time unit resolution. - Designed a scalable architecture featuring priority-based selection algorithms for optimized unit allocation across diverse emergency categories and geographic locations. - Built a real-time incident status tracker (Pending → Dispatched → Completed) with an operator dashboard for live review and manual dispatch control.	2025
Blog-API GitHub Client Author <i>Node.js · Express · PostgreSQL · Prisma · Cloudflare Pages · JWT · bcrypt</i> - Architected and deployed a full-stack blogging platform with 7 RESTful API endpoints across reader and author clients, live on Cloudflare Pages. - Implemented JWT-based authentication with bcrypt password hashing and role-based access control, separating public reader and protected author routes. - Designed a relational schema with Prisma ORM, supporting nested comment threads, draft/published post states, and file upload integration.	2025
BattleShip GitHub Live Demo <i>JavaScript · DOM API · Jest</i> - Engineered a turn-based Battleship game with a 10×10 grid, applying OOP to model ships, boards, and player actions with full placement validation and win detection. - Achieved full test coverage of core game logic using Jest, validating hit/miss detection, ship sinking, and boundary conditions before any UI integration.	2024

TECHNOLOGIES

Languages: JavaScript, Python, SQL, C++, C
Frontend: React.js, Next.js, Vite, Tailwind CSS, Recharts, SSE
Backend: Node.js, Express.js, FastAPI, BullMQ, JWT, bcrypt, Passport.js
Databases: PostgreSQL, pgvector, Redis, Supabase, Prisma ORM
AI / ML: Gemini API, OpenRouter, A2A Protocol, RAG, Vector Embeddings, Lamatic AgentKit
Infrastructure: Docker, Docker Compose, Cloudflare Pages, Git, GitHub, Postman, Linux