

Punith Naidu

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PROFILE

Computer Science undergraduate focused on backend engineering, AI systems, and full-stack applications. Built and deployed software used by thousands of university students, with experience spanning architecture, infrastructure, and production operations.

EDUCATION

SASTRA Deemed University B.Tech in Computer Science and Engineering (AI-DS) — CGPA 8.4 Narayana Junior College Senior Secondary Education JEE Main 2024: 97 Percentile Board Examination: 97%	Thanjavur, Tamil Nadu, India 2024 – 2028 Andhra Pradesh, India 2024
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ACHIEVEMENTS & CODING PROFILE

- **LeetCode & GeeksforGeeks:** 500+ DSA problems solved — plus SQL on LeetCode.
- **Core contributor** to **SASTRANET**, the largest student platform at SASTRA University (**13k+ users**).

EXPERIENCE

Sastranet — Core Developer • Developed backend services and co-managed production infrastructure for SASTRANET (13k+ users) , spanning REST APIs, Nginx, Linux deployments , and operational monitoring. • Diagnosed and resolved production regressions across the React Native and Node.js stack, eliminating recurring Sentry -reported crashes affecting thousands of daily users. • Engineered the web client for SASTRANET, extending the React Native product to browsers with a responsive, cross-platform user experience . • Managed production releases end-to-end, including Play Store publishing , server deployments, and Datadog -backed health verification.	2025 – Present
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SKILLS AND INTERESTS

• Languages: C/C++, Java, Python, TypeScript, SQL	• Databases: MongoDB, MySQL, Firebase
• Frontend: HTML/CSS/JS, React, React Native	• Tools: Docker, Git/GitHub, GitHub Actions, Linux, Nginx
• Backend: Node.js, Express, REST API	

PROJECTS

MaterialHub — Academic Resource Platform materialhub • Architected a curriculum-aware academic platform consolidating 3000+ materials across all branches in the University across semesters for 6000+ students , replacing fragmented WhatsApp groups and Drive folders. • Engineered a hybrid storage layer by caching the Google Drive directory tree in MongoDB, reducing navigation latency from seconds to near-instant while keeping file delivery on Drive. • Implemented NextAuth.js -based RBAC and built a BullMQ + Redis job pipeline that offloaded NSFW detection and ClamAV scanning to Python workers before publication.	2026 – Present
LifeOS — AI-Integrated Personal Productivity Platform lifeos • Built an AI-powered personal knowledge system that answers questions over notes, tasks and habits. • Designed a hybrid retrieval pipeline combining BM25 and vector search , choosing pgvector to simplify the architecture. • Shipped a memory version graph that continuously updates user facts across conversations, preventing stale memories instead of accumulating conflicting context.	2025 – Present
DocMax — Interactive Document-Processing Toolkit github • Built an interactive TUI with guided menus for 30+ document operations — automation and scripting. • Engineered a 4-stage OCR pipeline (deskew → contrast → denoise → binarize) with OpenCV + pytesseract , raising accuracy ~65% to ~90%.	2026