Sandesh P. Dawkhar

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PROFESSIONAL SUMMARY

Full-stack and AI engineer experienced in shipping production-ready web platforms, developer tools, document-intelligence pipelines, and automation systems. Works across TypeScript/React/Next.js, Python/FastAPI, PostgreSQL/pgvector, asynchronous processing, LLM integrations, observability, and cloud deployment. Open-source contributor to Joplin with two merged desktop fixes and a strong focus on secure, reliable, and maintainable end-to-end product delivery.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Java, C++, C, HTML5, CSS3
Frontend: Next.js, React, React Native, Tailwind CSS
Backend & Data: FastAPI, Node.js, Express.js, Celery, PostgreSQL, pgvector, Supabase, MySQL, MongoDB, Redis, Neo4j
AI & Document: OpenRouter/OpenAI-compatible models, PyMuPDF, pytesseract, python-docx, vector search, RAG
Tools & Cloud: Git, GitHub, Docker, pnpm, Vitest, VS Code extensions, Railway, Vercel, Sentry, Postman, n8n

PROJECTS

BlockFiles - Decentralized File Storage System | Live Demo *Jul 2025 - Oct 2025*

React · Node.js · Express.js · PostgreSQL · IPFS · Ethereum · Hardhat · Tailwind CSS · Vite

- Built an IPFS-Ethereum file platform with tamper-evident ownership, smart-contract access control, revocable sharing, and PostgreSQL-backed metadata.
- Added AI document search and chat with CID-linked citations; used Hardhat for local contract development and testing.

TCalc - Local-first AI Workspace Token Calculator | Marketplace | GitHub June *2026 – Jul 2026*

TypeScript · Node.js · pnpm workspace monorepo · Vitest · VS Code Extension (VSIX/Open VSX) · Commander

- Built a local-first VS Code extension and CLI that scans workspaces, estimates token usage and session cost, compares AI models, and recommends the cheapest sufficient model.
- Designed modular packages for scanning, tokenization, model catalogs, repo maps, agent rules, reports, CLI, VS Code, and an experimental MCP server.
- Implemented CI, tests, VSIX packaging, no-telemetry checks, and controlled Open VSX/Marketplace publishing workflows.

PROFESSIONAL EXPERIENCE

Software & AI Intern (Virtual) - Microsoft, SAP, Shell, EY GDS | AICTE & Edunet Foundation *Dec 2024 - Aug 2025*

- Delivered end-to-end AI and full-stack projects across healthcare, sustainability, and fintech, including NLP and CNN-based systems.
- Built a production-ready MERN crowdfunding platform with secure authentication, scalable APIs, and real-time interactions.

Tech: Python, JavaScript, React, Node.js, Express.js, MongoDB, NLP, Deep Learning, CNNs

Automation Developer (Virtual) - Acclivity Automation *Aug 2025 - Sep 2025*

- Built an n8n LinkedIn lead-generation workflow integrating HubSpot, WhatsApp, email, webhooks, and automated follow-ups.
- Improved response speed and CRM hygiene by automating outreach, contact-status updates, and last-touch metadata.

AI Engineering & Development Intern - Open Paws *May 2026 - Jul 2026*

Bengaluru, India | On-site

- Delivered full-stack and AI engineering work across confidential internal projects; specific project details are withheld in accordance with project confidentiality.
- Worked across document ingestion/OCR, vector retrieval, LLM integration, asynchronous jobs, production web interfaces, cloud deployment, and observability.

Tech: Python, TypeScript, FastAPI, Next.js/React, PostgreSQL + pgvector, Celery + Redis, OpenRouter/OpenAI-compatible models, PyMuPDF, pytesseract, python-docx, Railway, Vercel, Supabase, Sentry

CERTIFICATIONS & ACHIEVEMENTS

- Joplin open-source contributor: merged **PR #14920** fixing a desktop plugin IPC callback-registry memory leak.
- Merged **PR #14918** correcting Rich Text Editor checklist behavior when creating a new item with Enter.
- Winner, Postman Student Expert Challenge; Best UI at the national-level Triwizardathon organized by MLSA, Microsoft Gurugram.
- Finalist in 5 of 7 hackathons, demonstrating consistent competitive performance.

EDUCATION

Bachelor of Science in Information Technology *Mumbai, India*

University of Mumbai | CGPA: 9 / 10.0 *Jun 2023 - May 2026*