SAHAJ ITALIYA

Software Developer | Open-Source Engineer | Product Builder

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GitHub • LinkedIn • Portfolio • DS Labs

SUMMARY

Computer Engineering student building practical desktop applications, developer infrastructure, and AI-powered products. **Leads product development at DS Labs** and created PocketMC, an open-source Minecraft server-management ecosystem with 1,400+ downloads. Experienced in C#/.NET, Python, TypeScript, testing, CI/CD, and product releases.

TECHNICAL SKILLS

Languages: C#, Python, TypeScript, JavaScript, SQL, Go, Rust, Kotlin, Bash

Frameworks: .NET 8, WPF, ASP.NET Core, React, Next.js, FastAPI, Tailwind CSS

AI & Databases: LLM integration, RAG, Gemini, Hugging Face, SQLite, PostgreSQL, MongoDB, Redis

Tools & Practices: Git, GitHub Actions, Docker, REST APIs, WebSockets, CI/CD, automated testing, MVVM

EXPERIENCE

Independent Software Developer & Open-Source Maintainer *May 2025 – Present*

- Build and maintain open-source applications across Windows desktop software, cross-platform infrastructure tools, and AI systems.
- Engineer server automation, process lifecycle management, secure backups, remote control, and observability using .NET and Python.
- Manage product releases, CI/CD, automated tests, documentation, telemetry, and community-reported issues.

SELECTED PROJECTS

PocketMC — Server Management Ecosystem | *C# · .NET 8 · WPF · ASP.NET Core · WebSockets* GitHub

- Built a local-first Windows manager for Minecraft Java/Bedrock with managed runtimes, crash recovery, add-on marketplace, Geyser cross-play, public tunnels, and cloud backups.
- Developed an authenticated remote dashboard and structured test architecture across five test projects; 980+ tests documented in the repository.

MSM — Cross-Platform Server Manager | *Python · SQLite · Linux · Termux* GitHub

- Developed a terminal-based server manager supporting Linux, Termux, Windows, macOS, WSL, and FreeBSD with pluggable process backends.
- Implemented SQLite WAL telemetry, automatic crash recovery, safe ZIP backups, runtime provisioning, and Playit/ngrok tunnels; 94-test suite.

Campus Assistant — Multilingual RAG | *FastAPI · Next.js · Gemini · ChromaDB* GitHub

- Built a retrieval-augmented AI helpdesk for educational institutions supporting 7+ Indian regional languages; won the GDG TechSprint EdTech category.

EcoSpot — Industrial Decarbonization | *Python · FastAPI · React · TypeScript* GitHub

- Built a full-stack industrial emissions and circularity prototype with process-level digital twins, what-if scenario analysis, and reporting; Top 12 finalist at HackOut 2026 (DA-IICT).

ACHIEVEMENTS

Smart India Hackathon 2026 — SchemeSetu selected in institute internal round. **ZeroDepsHack** — DiagonalNet ranked 73rd among 295 projects.

EDUCATION

Shree Swami Atmanand Saraswati Institute of Technology Expected 2029

Bachelor of Engineering, Computer Engineering | Surat, Gujarat