

SHAMIL IRFAN

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SUMMARY

Computer Science student focused on automation, backend development, and cloud infrastructure. Hands-on experience deploying and managing self-hosted services on Linux and Raspberry Pi — including DNS, media, streaming, and storage servers. Familiar with GCP through academic and personal projects, and experienced with Python, Flask, and Docker. Seeking Cloud, Developer, or DevOps roles where I can apply practical systems experience.

EDUCATION

B.E. Computer Science and Engineering	Expected 2027
Coimbatore Institute of Engineering and Technology, Coimbatore	CGPA 8.43
Higher Secondary Education	May 2022
Campion Anglo Indian Higher Secondary School, Tiruchirappalli	77%
Secondary School Education	Mar 2020
Campion Anglo Indian Higher Secondary School, Tiruchirappalli	89%

TECHNICAL SKILLS

Programming: C, Python, AutoHotkey, Lua, Bash
Web Technologies: HTML, CSS, JavaScript, React, Flask
Databases: MySQL, MongoDB
Tools & Platforms: Docker, Git, Linux, GCP, Power Automate, Vim

INTERESTS

Photo & Video Editing
System Customization
Electronics Tinkering
Astrophysics

PROJECTS

AI Butler (Alfred) — Local Agentic Personal Assistant 2025 – Present
Built a fully local AI assistant using a ReAct-based agentic loop running on Ollama. Uses Python and LangChain to orchestrate tools for querying an Obsidian knowledge base via RAG, managing calendar, summarising emails, and executing sandboxed scripts for on-demand automation. Operates entirely offline with no data sent to external servers.

ClassSnap — Facial Recognition Attendance System 2025
Built a group project attendance system using Python and Flask on the backend, with RetinaFace for detection and DeepFace for recognition, storing records in MongoDB. A React dashboard displays attendance analytics. Integrated with a Raspberry Pi camera module, achieving 90%+ recognition accuracy and eliminating manual attendance processes.

HomeLab — Self-Hosted Personal Infrastructure 2024 – Present
Deployed and maintains a personal server infrastructure on Linux across a Raspberry Pi and laptop. Services include Jellyfin (media), Nextcloud and Syncthing (storage), Pi-hole (24/7 DNS on Raspberry Pi Zero 2W), Tailscale and Nginx reverse proxy (remote access), Beszel (monitoring), and Ollama with LM Studio (local AI). All services managed via Docker Compose.

External Keyboard as Stream Deck (MacroPad) 2024
Built a software utility in AutoHotkey that intercepts keystrokes from an external keyboard and maps them to multi-layer workflow automations. Includes a GUI for managing layers and bindings, reducing repetitive manual tasks by 50%.

Smart Phone Automation (Tasker + MacroDroid) 2025
A collection of automations on a rooted Android device running a custom OS. Includes AI-powered SMS auto-reply, context-aware phone mode switching, and gesture controls built using Tasker and MacroDroid. Automated 100% of missed-call responses.

CERTIFICATIONS

- NPTEL — Cloud Computing (Oct 2024), Modern Programming in C++ (Apr 2024)