

SHAMIL IRFAN

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SUMMARY

Computer Science student with hands-on experience building backend applications using Python, Flask, SQL, and Docker. Passionate about developing scalable web applications, automation tools, and Linux-based systems. Strong problem-solving skills with practical experience in REST APIs, databases, and deploying real-world projects. Seeking a Full Stack Developer role to contribute and grow as a software engineer.

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

Languages: C, Python, Java, AutoHotkey
Web Technologies: HTML, CSS, JavaScript, PHP, Flask
Databases: MySQL, MongoDB
Tools & Platforms: Power Automate, Docker, Jenkins, Linux, GCP

INTERESTS

Self Hosting
System Customization
Electronics
Astrophysics

PROJECTS

ClassSnap — Facial Recognition Attendance System 2026
Built a group project attendance system using Flask-REST APIs for the backend, with DeepFace for recognition and 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.

TaskForce — Flask REST API with CI/CD Pipeline 2026
Built a Flask-based REST API and implemented an end-to-end CI/CD pipeline using Jenkins, Docker, and Kubernetes. Automated build, testing, containerization, and deployment workflows to demonstrate scalable and reproducible application delivery.

HomeLab — Self-Hosted Personal Infrastructure 2024 – Present
Deploying and maintaining 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).

Hostel Management System 2025
Built a web-based hostel management system using PHP, MySQL, Bootstrap, featuring session-based admin authentication, student CRUD, room allocation with double-booking prevention, live search, and a responsive dashboard.

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 Android Automation Suite (Tasker + MacroDroid) 2025
Built a collection of Android automations to automate routine tasks, including context-based phone mode switching, AI-powered missed call and SMS replies, remote PC control, and custom gesture actions.

CERTIFICATIONS

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