

SHAMIL IRFAN

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SUMMARY

Final-year Computer Science student with hands-on experience building backend applications, REST APIs, and data-processing workflows using Python, Flask, SQL, and Docker. Strong foundation in Object-Oriented Programming, relational databases, and Linux, with a passion for developing scalable software and data-driven solutions. Seeking a Software Developer Internship to contribute to real-world software and data-driven projects.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript

Databases & SQL: MySQL, MongoDB, SQL

Web & Backend: Flask, REST APIs, HTML, CSS, PHP

Data Processing: Data Cleaning, Data Extraction, JSON Processing & Schema Design, API Integration

Tools & Platforms: Git, Docker, Jenkins, Power Automate, Linux, GCP

INTERESTS

Self Hosting

System Customization

Electronics

Astrophysics

PROJECTS

ClassSnap — Facial Recognition Attendance System

2026

Built the Flask REST API backend and integrated DeepFace for facial recognition, storing structured attendance records in MongoDB. Collaborated with teammates on a React-based analytics dashboard. Integrated Raspberry Pi camera module, achieving 90%+ recognition accuracy.

YouTube Playlist Categorizer

2026

Developed a Python-based ETL application using OAuth2 and the YouTube Data API to extract, clean, transform, and classify playlist metadata into structured JSON categories, automating playlist organization.

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.

Hostel Management System

2025

Built a hostel management system using PHP, MySQL, Bootstrap 5, and jQuery with a relational schema for admin authentication, student CRUD operations, room allocation, and live search, backed by a responsive dashboard.

HomeLab — Self-Hosted Personal Infrastructure

2024 – Present

Designed, deployed, and maintained a Linux-based homelab across a Raspberry Pi and laptop using Docker and self-hosted services. Configured networking, reverse proxies, remote access, and monitoring while managing services including Jellyfin, Nextcloud, Syncthing, Pi-hole, Tailscale, Nginx Proxy Manager, and Beszel.

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

84%

CERTIFICATIONS

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