Skills

Programming Languages

C++, C, Python

Computer Science Fundamentals

Data Structures & Algorithms, Operating Systems, Computer Networking fundamentals

Systems, Platforms & Infrastructure

Linux (Debian/Ubuntu – homelab experience), Windows (development exposure), Docker, Docker Compose, Portainer, Git, AWS EC2, AWS S3, WireGuard, Tailscale, Caddy (reverse proxy), Cloudflare (DNS management)

Database Systems

PostgreSQL, MySQL (CRUD operations & schema design)

Version Control

Git, GitHub (repository management & collaboration)

Other Tools & Experience

HTML, CSS, Bash scripting

Certifications

Learn Fundamentals Of Computer Programming With C Language

Digital Systems: From Logic Gates to Processors

Introduction to Java and Object-Oriented Programming

Docker for absolute beginners

Ordered Data Structures

Languages

English   Hindi

Chinmay Singh

Computer Science Undergraduate | C/C++ | Systems & Cloud

Blr, IN • +91 94721 74597 • @ singhchinmayy@gmail.com •
🔗 https://chinmaysingh.me

Profiles

in singhchinmay   ⌗ singhchinmayy

Education

Manipal Academy of Higher Education   **2023-27**

Bachelor's in Computer Science

Projects

VPS Infrastructure & Self-Hosted Services Platform

- Designed, deployed, and maintained a **self-managed VPS and ARM-based Linux infrastructure** using Docker to run and operate self-hosted services with focus on reliability, security, and full lifecycle management
- Implemented secure remote access (WireGuard/Tailscale), reverse proxy routing with **Caddy**, automated HTTPS, and custom domain-based service exposure, gaining hands-on experience in networking, system administration, and containerized application deployment

Linux, Docker, Reverse Proxy, Wireguard

C++ CLI Tool – FFmpeg Wrapper

- Developed a modular **C++ command-line application** to abstract and orchestrate FFmpeg media workflows in a Linux system environment
- Implemented argument parsing, external process execution, and structured error handling with focus on maintainability and extensibility

C++, FFmpeg, Linux

IAM System for College Project

- Designed and implemented backend logic and database schema for **user authentication and access control**
- Supported the complete software lifecycle including development, testing, debugging, and issue resolution

Python, HTML/CSS/JS, PostgreSQL/MySQL

Multi-Model Agentic AI Prototype – Rakuten Hackathon

- Collaborated in a team to integrate multiple AI components into a cohesive system under competitive time constraints
- Contributed to coding, debugging, and subsystem integration, advancing to the **penultimate round**

Python, AI frameworks