

Sachin Yadav

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SKILLS

- **Systems & OS:** C, C++, Embedded Linux, Linux system programming, processes, signals, IPC, daemons, service lifecycle
- **Application Development:** Python, JavaScript, Node.js, Express.js, REST APIs, React.js, Next.js
- **Infrastructure & Tooling:** Docker, Docker Compose, CI/CD (GitHub Actions), Nginx, VPS hosting, Git
- **Data, Debugging & Utilities:** MySQL, Linux CLI, Bash scripting, gdb, logging

EDUCATION

- **University School of Information Communication & Technology** Delhi, India
Bachelor of Technology – Computer Science and Engineering; GPA: 9.15
Dec 2021 – July 2025

EXPERIENCE

- **Research & Development Engineer** Tejas Networks
On-site — Gurugram, India
July 2025 – Present
 - Design and implement **performance-critical C/C++ components** for **GPON access network software** on **embedded Linux platforms**.
 - Develop **new functionality** and extend existing system modules within the access network stack.
 - Debug and maintain **Linux daemons**, working with **IPC mechanisms**, process lifecycle, and service orchestration.
 - Analyze runtime behavior and memory usage to improve **reliability, stability, and fault recovery**.
 - Perform root-cause analysis of system-level issues using **gdb** and **Linux logging tools**.
- **Research & Development Engineer Intern** Tejas Networks
On-site — Bengaluru, India
Jan 2025 – July 2025
 - Worked on **telecom access network software** and device-level system components.
 - Automated **network device test cases** using **Python** and internal frameworks to improve coverage.
 - Used **Spirent traffic generators** to validate behavior under load and fault scenarios.
 - Built understanding of **hardware–software interaction** in telecom-grade systems.
- **Software Development Engineer Intern** Realty Experts Group
Remote
Mar 2024 – Dec 2024
 - Developed and maintained **backend services** for a production web platform.
 - Containerized services using **Docker** and automated deployments via **CI/CD pipelines**.
 - Configured **Nginx reverse proxy** and **SSL** for secure service exposure on **VPS infrastructure**.

PROJECTS

- **InLoop – Real-time Code Editor**
Multi-user collaborative system
 - Designed a **real-time synchronization system** enabling concurrent code editing using WebSockets.
 - Implemented server-side coordination logic using **Node.js** and **Socket.IO**.
 - Focused on **state consistency**, concurrency handling, and low-latency updates.
 - Source: <https://github.com/sachin3145/realtime-code-editor>
- **Simple File-Backed Entry Manager (C)**
Persistent storage system
 - Built a **file-backed C application** with in-memory operations and persistence.
 - Abstracted **stdio** and **POSIX file I/O** behind a common interface.
 - Designed modular components for entry handling and logging.
 - Source: <https://github.com/sachin3145/file-handling>

PERSONAL WEBSITE

<https://sachin3145.vercel.app>