

# Sachin Yadav

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## SKILLS

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- **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

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

## EXPERIENCE

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- **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

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- **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

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<https://sachin3145.vercel.app>