

Somayya Avadut

✉ smavadut3@gmail.com ☎ +91-8421951052 📍 Solapur, India 🌐 LinkedIn 🐙 GitHub

PROFILE

Software Senior Engineer with 5+ years of experience in **C++ system programming, Linux internals, and concurrent system design**. Experienced in building **low-latency backend components, secure client-server systems, and high-performance logging frameworks**. Strong background in **multithreading, IPC, asynchronous I/O, and performance optimization**.

PROFESSIONAL EXPERIENCE

Software Senior Engineer

Dell Technologies

05/2025 – Present | Pune

- Studied product architecture, design documents, and legacy code during initial phase to understand workflows, defect patterns, and operational behaviour.
- Implemented secure HTTPS client-server functionality, developing CLI commands for TLS certificate configuration, lifecycle management, and secure service control.
- Designed and enhanced the auditing subsystem to track file system operations and configuration changes, improving system traceability and operational monitoring.

Software Engineer

Toshiba Software India Pvt. Ltd.

01/2023 – 04/2025 | Bengaluru

- Refactored legacy C++ modules, reducing runtime latency by 20% and improving throughput by 15%.
- Designed low-latency async logging system handling 100K+ log entries/day, reducing overhead by 18%.
- Built Python-based automation framework reducing manual testing from 10 hours to 30 minutes(3x deployment speed).
- Implemented data-driven hardware optimisation improving cost efficiency and reducing waste.

Software Engineer

Teradata India Pvt. Ltd.

09/2020 – 01/2023 | Hyderabad

- Enhanced user-defined functions and stored procedures in C to improve database performance and security.
- Packaged RPMs for system boot management improving reliability and deployment consistency.
- Managed multi-threaded and multi-process systems focusing on synchronisation and IPC.
- Reduced user-reported defects by 35% through debugging and root cause analysis.

SKILLS

Programming Languages

C(POSIX), C++17(STL), Python, Shell Scripting

System Programming

Multithreading, IPC, POSIX APIs, Socket Programming, Memory Management

Concurrency

Mutex, Condition Variables, Multi-threading, Multi-process systems

Software Design

OOP, SOLID Principles, Design Patterns (Factory, Singleton)

System Architecture

Low-Level Design (LLD), High-Level Design (HLD)

Tools & Environment

Linux, Git, RPM Packaging, Debugging, Performance Profiling, Agile

EDUCATION

Master of Technology

University of Hyderabad

07/2018 – 06/2020 | Hyderabad

Bachelor of Engineering

University of Solapur

07/2014 – 06/2018 | Solapur

ORGANISATIONS

Eshwar Multipurpose and Research

Organisation, Solapur

Volunteer

2016 – present | Solapur

- **Lead initiative** to support 100+ economically disadvantaged students annually through scholarships.
- **Founded & organized "Code-A-Thon"**, a national-level coding competition, securing sponsorships and distributing laptops to winners.
- **Launched "Science Centre Visit" initiative**, enabling school students to explore science through hands-on learning experiences.