SURAJ B. BHAIRAT

Software Development Engineer
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PROFESSIONAL SUMMARY

C++ and Linux-focused Software Engineer with hands-on experience in Linux-based development, system programming, multithreading, and performance optimization. Strong knowledge of C++ (OOP, STL, memory management), Linux internals, POSIX APIs, socket programming, and debugging tools. Proven ability to design, develop, test, and optimize high-performance applications in Linux environments.

SKILLS

Programming Languages: C++, C, Python, Bash, SQL
Operating Systems & System Concepts: Linux, Process Management, Memory Management, Multithreading, IPC, File Systems, System Calls
Linux & Low-Level Development: POSIX APIs, Socket Programming, TCP/IP, Thread Synchronization
Tools & Build Systems: GCC/G++, GDB, Makefile, CMake, Valgrind, Git, Jenkins, Docker
Software Engineering: OOP, Data Structures & Algorithms, Debugging, Performance Tuning, CI/CD, Agile
Databases: MySQL, SQLite

PROFESSIONAL EXPERIENCE

FREELANCE

Self Employed   (June 2023-2025)

- Designed and developed responsive user interfaces using React.js, HTML5, CSS3, and JavaScript, improving user engagement by 20%.

- Collaborated with clients to gather requirements, analyze user needs, and convert ideas into functional web solutions, deployed client websites with a focus on performance optimization, cross-browser compatibility, and mobile responsiveness

- Built and Delivered end-to-end web projects, including UI design, development, testing, and deployment

Persistent Systems Limited – Pune, India

Software Development Engineer | Dec 2021 – Dec 2022

- Designed and developed scalable web applications using technologies such as HTML, CSS, JavaScript, and React.

- Implemented RESTful APIs for seamless communication between frontend and backend systems.

- Enhanced frontend performance by implementing custom hooks, tree shaking, code split and lazy loading.

- Optimized website performance through code refactoring, caching strategies, and database tuning techniques.

Persistent Systems Limited – Pune, India

Software Development Intern

- Completed structured training in Java, Spring Boot, ReactJS, and Node.js as SDET.
- Trained in - Developed and integrated RESTful web services with databases.
- Automated testing using Selenium WebDriver; performed performance testing with JMeter.
- Contributed to CI/CD pipeline setup for automated builds and deployments.

PROJECTS

Multithreaded File Processing System – C++ | Linux
- Designed and developed a high-performance file processing application using POSIX threads.
- Improved performance by ~40% using parallel processing.

Linux System Monitor – C++ | Bash
- Built a monitoring tool to track CPU, memory, disk, and process statistics from /proc filesystem.

Client-Server Chat Application – C++ | Socket Programming
- Developed a TCP/IP-based multi-client chat application on Linux.

EDUCATION

B-Tech in Electronics Engineering – MIT Academy of Engineering, Pune
GPA: 7.2 / 10

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900)