

Mann Lohchab

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EDUCATION

SRM University

Expected 2028

B.Tech in Computer Science & Engineering (Core)

CGPA: 7.5

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming
- Academic focus on systems-level understanding and backend engineering principles

Central Board of Secondary Education (CBSE)

Class XII – Science (Physics, Chemistry, Mathematics, Biology)

87%

- Strong quantitative foundation with emphasis on Mathematics and problem-solving

Central Board of Secondary Education (CBSE)

Class X

89.16%

TECHNICAL SKILLS

Languages: C, Python, Zig, JavaScript, TypeScript

Backend: Node.js, Express.js, Bun, REST APIs, Authentication (JWT, session-based)

Frontend: React.js, React Native, Svelte, TailwindCSS, HTML, CSS

Databases: MongoDB, PostgreSQL, SQL

Systems: Linux (3+ years), Bash, QEMU, Apache2, Nginx, Podman, Docker

Cybersecurity: Nmap, Metasploit, API security fundamentals, basic penetration testing

Tools: Git, Figma

PROJECTS

School ERP Management System (MERN Stack)

- Engineered a full-stack ERP system under Kmos Software Collective handling student records, fee tracking, and administrative workflows.
- Designed scalable RESTful APIs and implemented role-based authentication and authorization.
- Structured modular backend architecture and optimized MongoDB queries for efficient data retrieval.

QR-Based Online Menu System (Express, React, PostgreSQL)

- Built a contactless ordering platform for a local restaurant using QR-based routing.
- Designed normalized PostgreSQL schema and optimized relational queries.
- Improved backend performance via structured routing and middleware handling.

Personal Portfolio Website (mann.works)

- Designed and deployed a responsive developer portfolio showcasing projects and technical work.
- Configured Nginx for deployment and performance optimization.

Unix Shell in C

- Implemented a custom Unix shell supporting command execution, piping, and process management.
- Worked with `fork()`, `exec()`, and system calls to understand OS-level process handling.

Machine Learning Projects (Python)

- Built a climate prediction model using historical datasets with regression techniques.
- Developed an electric grid deviation prediction model for analyzing load variation trends.
- Performed data preprocessing, feature engineering, and evaluation metrics tuning.

CORE STRENGTHS

- Strong foundation in Operating Systems and Unix-based environments
- Backend-focused engineer with database design expertise
- Practical understanding of API security and system-level tooling
- Fast learner with experimentation-driven development mindset