

# SAIYED SHIZAIN

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## Career Objective

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Computer Science undergraduate and Indie Software Engineer with a focus in architecting secure, high-concurrency systems and low-level infrastructures. Experienced in taking projects from initial design to production-ready deployment, with a strong emphasis on system resilience and performance optimization. Demonstrated leadership through technical mentorship and a dedicated approach to mastering emerging industry standards and high-performance engineering.

## Education

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<b>COER University, Roorkee, India</b> <ul style="list-style-type: none"><li>Bachelor of Technology in Computer Science &amp; Engineering</li></ul>	<b>2024 – 2028</b> CGPA: 8.75
<b>St. Joseph's School, India</b> <ul style="list-style-type: none"><li>ISC (Class XII)</li></ul>	<b>2021 – 2023</b> Awarded Score: 74.8%
<b>St. Joseph's School, India</b> <ul style="list-style-type: none"><li>ICSE (Class X)</li></ul>	<b>2019 – 2021</b> Awarded Score: 86.6%

## Projects

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### Zentry | Enterprise Identity & Access Management (IAM) Feb 2026 – April 2026

Architected a secure IAM infrastructure utilizing Java 25's Structured Concurrency for high-availability logging and monitoring. Implemented a layered defense model with IP-based request throttling and AOP-based Audit Interception. Achieved 100% test coverage for authentication gateways, ensuring sub-millisecond JWT validation and immediate session revocation via Redis 7.

- Tech Stack:** Java 25 | Spring Boot 4.0 | Spring Security 7 | Redis 7 | PostgreSQL 16 | Docker | AspectJ | Maven

### Certly | Bulk Rendering & Distribution Pipeline Jan 2026 – March 2026

Engineered a high-throughput engine for dynamic certificate generation and automated mass distribution. Developed a custom canvas editor with layered manipulation and non-destructive history buffers. Optimized a concurrent delivery pipeline capable of processing and emailing 1,000+ unique certificates in a single bulk operation with sub-second rendering latency.

- Tech Stack:** Next.js 16.1 | TypeScript 5 | Hono | Fabric.js | TanStack Query | Zod | Tailwind 4.0 | Resend

### NyxOS | RISC-V Operating System Oct 2025 – Feb 2026

Developed a custom OS for RISC-V architecture in a "no\_std" Rust environment to eliminate standard library overhead. Implemented low-level kernel primitives, including manual memory management and a custom Hardware Abstraction Layer (HAL). Focused on direct hardware interfacing and kernel-level concurrency for minimal context-switching latency.

- Tech Stack:** Rust (no\_std) | RISC-V | Systems Programming | Kernel Development | QEMU | Git

## Experience

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### Competitive Coding Club | Leader Nov 2024 – Present

- Led and mentored 50+ students in competitive programming, organizing practice sessions, and problem-solving workshops.

## Certifications

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- Oracle Cloud Infrastructure 2025 – DevOps Professional** Oracle | Issued Oct 2025 · Expires Oct 2027  
**Skills:** OCI, Cloud Computing (IaaS), DevOps, Docker, CI/CD, Oracle Kubernetes Engine, Container Orchestration, Observability
- Oracle Cloud Infrastructure 2025 – Developer Professional** Oracle | Issued Oct 2025  
**Skills:** Cloud-native application development, Serverless, Secure deployments, Monitoring & troubleshooting on OCI

## Skills

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- Programming:** Java 25 | Rust (no\_std) | TypeScript 5 | Oracle PL/SQL | Bash
- Backend & Systems:** Spring Boot 4.0 | REST APIs | Virtual Threads | AOP | Zero-Trust Architecture | Modular Software Architecture
- Cloud & DevOps:** OCI (Certified) | Docker | Kubernetes (OKE) | Redis 7 | CI/CD | Linux (Oracle)
- Databases:** PostgreSQL | Oracle 19c | MySQL | Relational Database Design | Query Optimization
- Tools & Platforms:** Git | GitHub | Linux (Oracle Linux) | QEMU

## Extracurricular Activities

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- AI for Connectivity Hackathon II 2024 (International):** Collaborated in a global hackathon to design AI-driven solutions for resilient and adaptive network connectivity.
- Smart India Hackathon 2024 (National):** Worked on an IoT-based system for gunshot detection and localization, focusing on sensor data processing and event classification.