

# Rustam Sheoran

Haryana, India | rustam98137@gmail.com | GitHub | LinkedIn | Portfolio

## EDUCATION

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### IIT Indore

*Diploma in Artificial Intelligence & Data Science — CGPA: 9.78/10*

India

*Expected Feb 2026*

### Harkirat Singh Cohort / Bootcamp

*Backend Engineering, Distributed Systems, Infrastructure, Full Stack Development*

Remote

*Present*

## OPEN SOURCE CONTRIBUTIONS

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### Jaeger (CNCF) | Python, Security Tooling, Observability, OSS

- Contributed security and compliance improvements including OpenSSF Gold related fixes, SPDX/license enforcement tooling, and automation scripts
- Worked on CSP/security updates, testing pipelines, developer tooling, and Python-based CI automation through maintainer review cycles
- Collaborated within production-grade observability and distributed tracing ecosystems following OSS contribution workflows

### Headlamp (Kubernetes SIGs) | Go, React, TypeScript, Kubernetes

- Developed fixes for stale Kubernetes Pod readiness state rendering and improved frontend reactivity for container state transitions
- Implemented async Helm execution context handling fixes using Go context propagation, concurrency-safe execution semantics, and goroutine lifecycle management
- Worked with Kubernetes APIs, Helm workflows, backend services, and large-scale cloud-native codebases

## PROJECTS

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### Shell++ | C++20, POSIX, Unix Syscalls, Systems Programming

- Built a Unix-like shell with AST parsing, pipelines, I/O redirection, process scheduling, job control, and signal handling
- Implemented interactive terminal features including command history, tab completion, process management, and foreground/background execution
- Designed modular execution engine with integration testing, benchmarking, and low-level systems abstractions

GitHub

### Rust Password Manager | Rust, Cryptography, Security Engineering

- Developed a security-focused password vault with encrypted storage, CLI + TUI workflows, auto-locking UX, and secure secret handling
- Implemented authenticated encryption using Argon2id and ChaCha20Poly1305 with zeroize-based memory cleanup and secure vault architecture
- Added integration tests covering encryption workflows, regression checks, plaintext detection, and Unix permission enforcement

GitHub

### ASCII-CAM | React, TypeScript, Canvas API

- Built a real-time ASCII art camera with 60+ FPS rendering, customizable character sets, media export, and browser-based image processing
- Optimized Canvas API rendering pipelines while maintaining responsive UI performance and efficient frontend rendering throughput
- Implemented real-time processing workflows, client-side rendering optimization, and interactive browser APIs

Live GitHub

### SolScope | React Native, TypeScript, Solana JSON-RPC

- Developed a lightweight Solana wallet intelligence platform using direct JSON-RPC communication without heavyweight SDK dependencies
- Implemented wallet analysis workflows, blockchain transaction inspection, state management, and cross-platform mobile UI using Expo and Zustand
- Designed thin-client architecture optimized for efficient blockchain data retrieval and reduced mobile bundle size

GitHub

## ACHIEVEMENTS

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### Competitive Programming

- CodeChef 6-Star (2239 rating, Division 1) with Global Rank 291 and Country Rank 116
- Strong background in algorithms, data structures, competitive programming, problem solving, and optimization techniques

CodeChef

## TECHNICAL SKILLS

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**Languages:** C++, TypeScript, Python, Go, Rust, C, SQL, JavaScript

**Frameworks & Libraries:** React, Next.js, Node.js, Express.js, React Native, Zustand, TailwindCSS, Expo

**Cloud & Infrastructure:** Linux, Docker, Kubernetes, Helm, CI/CD, Git, REST APIs, POSIX, Distributed Systems

**Databases & Platforms:** PostgreSQL, MongoDB, Solana JSON-RPC

**Concepts:** Systems Programming, Backend Engineering, Observability, Concurrency, Multithreading, Cryptography, Cloud Native