

# Shubham Yadav

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## EDUCATION

### St. Wilfred School

High School, Science

Jaipur, Rajasthan

Aug. 2015 – May 2024

## EXPERIENCE

### Founder & CTO

November 2025 – Present

*Surf*

*Remote*

- Built full media infrastructure in Rust with real-time WebRTC signal server and WebSocket for low-latency connections
- Developed performance-critical packages in Zig for compute-intensive workloads
- Created AI service in Python using FastAPI and OpenAI Whisper for real-time speech-to-text transcription
- Built full-stack monorepo with Turborepo, Next.js, Hono backend with end-to-end type safety via Zod
- **Tech Stack:** Rust, Zig, WebRTC, Python, FastAPI, TypeScript, Next.js, Hono, PostgreSQL, Redis, Docker, Kubernetes, AWS

### Backend Engineer & DevOps Engineer

September 2025 – Present

*MegaLLM*

*Remote*

- Developed backend services in Go for native macOS AI application
- Built native macOS app in Swift for AI chat interactions
- Architected microservices with NATS for inter-service messaging
- **Tech Stack:** Go, Swift, TypeScript, NATS, Redis, PostgreSQL, Docker, Kubernetes, Jenkins, Grafana, Prometheus, AWS

### Backend & DevOps Engineer

January 2025 – September 2025

*DynTech*

*Remote*

- Developed high-frequency trading APIs handling 10M+ transactions daily
- Implemented WebSocket connections for real-time market data streaming
- Optimized database queries, reducing response time by 60%
- **Tech Stack:** Go, PostgreSQL, Redis, WebSockets, Docker, Jenkins, Python, TypeScript, Rust, Kubernetes

## PROJECTS

### UltraBalancer | C, C++, Python, CMake, OpenSSL

2025

- Built high-performance load balancer in C/C++ using lock-free data structures and zero-copy networking
- Implemented Round Robin, Weighted, Least Connections, IP/URI Hash algorithms with custom plugins
- Achieved 1M+ req/sec, 1M+ concurrent connections, <100s p50 latency on commodity hardware

### SSH Honeypot | Rust, Docker, Cargo

2025

- Developed lightweight SSH honeypot in Rust for capturing attacker authentication attempts and commands
- Simulated realistic fake shell with structured JSON Lines logging for analysis
- Implemented full async SSH protocol; containerized with Docker for safe deployment

## TECHNICAL SKILLS

**Languages:** Rust, Go, Python, C, C++, TypeScript, Swift, Zig, JavaScript, SQL (PostgreSQL)

**Frameworks:** FastAPI, Next.js, Hono, NATS, Nest.js, React, Node.js, Drizzle ORM, Zod, Flask

**Developer Tools:** Docker, Kubernetes, AWS, Jenkins, Git, Grafana, Prometheus, VS Code, GitHub Actions

**Libraries:** WebRTC, WebSockets, Redis, OpenSSL, NumPy, Pandas, Pydantic, gin-gonic, gorilla/websocket