

TUSHAR A

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space2pt

SUMMARY

Systems engineer and startup founder with 4+ years of experience building distributed infrastructure, developer tools, and consumer platforms. Scaled a game hosting platform to 10,000+ users on self-managed bare-metal servers with zero external funding. Currently pursuing AI/ML specialisation while shipping across the full stack — TypeScript, Rust, Python, React, and Cloudflare Workers.

TECHNICAL SKILLS

Languages: TypeScript, Rust, Python, C++, Java, Bash

Frontend: React, Expo (React Native), Tauri, Tailwind CSS

Backend: Hono, Cloudflare Workers, FastAPI, Node.js, Nginx

Infrastructure: Docker, Linux (Ubuntu/CentOS), Pterodactyl, UFW/Fail2Ban, Bash Scripting

Data: PostgreSQL, MySQL/MariaDB, Cloudflare D1/R2

AI/ML: PyTorch, Reinforcement Learning, OpenAI API, Gemini API, Claude API, MCP Protocol

EXPERIENCE

Witchly.host

Founder & Lead Systems Engineer

2021 – Present
Remote

- Founded a free game-server hosting platform, scaling to **10,000+ registered users** and thousands of concurrent Docker containers — fully bootstrapped with zero external funding.
- Architected a distributed bare-metal cluster with cgroup-based tenant isolation (CPU pinning, RAM limits), achieving 99.9% uptime at a fraction of equivalent cloud compute costs.
- Mitigated large-scale L7 DDoS attacks through layered edge and host-level defences; restored full service in under 20 minutes with zero data loss.
- Built an automated order-to-provision pipeline via a custom Discord bot integrated with payment gateway APIs, enabling instant server activation with zero manual intervention.

MistyMC.xyz

Co-Founder & Web Developer

2025 – Present
Remote

- Co-founded a Minecraft server network; designed, developed, and maintain the public-facing website and web infrastructure supporting a growing player community.

PROJECTS

Auto-Examiner | [HuggingFace](#) | *Meta PyTorch × Scaler Hackathon Finalist*

Self-improving reinforcement learning environment where an AI agent generates and solves coding challenges with dynamically escalating difficulty. Built with PyTorch, FastAPI, and Pydantic. Team selected as finalists from 31,000+ registered participants.

code-debug-env | [GitHub](#) | [HuggingFace](#)

OpenEnv RL environment where AI agents debug progressively harder Python code — from syntax errors to interdependent multi-function bugs. Features subprocess-based sandboxed execution with timeout enforcement and partial credit scoring.

India Finance MCP | [GitHub](#) | [Live API](#)

MCP server and REST API serving real-time Indian mutual fund NAVs from AMFI (47,000+ schemes) and GSTIN validation with checksum verification. Built with Hono on Cloudflare Workers; deployed on Apify for AI agent discovery.

Docspell | *In Active Development*

AI-powered document platform on Cloudflare Pages + D1 + R2 with Gemini and Claude API integrations. Three-tier SaaS pricing model (Free / \$16 Pro / \$49 Team) with collaborative editing and AI-assisted document generation.

EDUCATION

Presidency University

B.Tech in Computer Science & Engineering (AI & ML)

Expected 2028
Bangalore, India

- Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS.