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Manoj Shivagange

Junior Developer

Portfolio: mshiv.net
GitHub: github.com/the1andonlymanojos
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I like building things end-to-end, from backend infra to frontend UIs, and I've shipped projects that are actually used: from a course archive with 1000+ monthly active users to a zero-trust Kubernetes controller. I also have ML research experience from my B.Tech thesis (vision-based tennis shot recognition, 94% accuracy). I want to bring that mix of product focus and technical depth to your esteemed organization, while learning how large-scale teams ship features in production.

SKILLS

Languages & Frameworks	Go, JavaScript, TypeScript, Python, C++, Java, SQL, React, Next.js, WebRTC, gRPC
Systems & Infrastructure	Kubernetes, Docker, Linux, Nginx, Redis, Cloudflare, GCP, AWS, Jenkins, Proxmox
Machine Learning	TensorFlow, PyTorch, CNNs, RNN/GRU/LSTM, Attention, Human Pose Estimation (MoveNet)
Databases	MySQL, Supabase, Drizzle ORM
Testing & DevOps	Unit, Integration, e2e Testing, CI/CD, GitHub Actions
Languages (Human)	English (CEFR B2+), Hindi (fluent)

TECHNICAL EXPERIENCE

B.Tech Thesis: Vision-Based Tennis Shot Recognition Jan 2025 — May 2025
IIITM Gwalior Gwalior, India

- Achieved **94% accuracy** in tennis shot classification using HPE (MoveNet) with sequential models (RNN, GRU, LSTM, BiLSTM), attention mechanisms, and CNN encoders.
- Created a **custom dataset + ML pipeline** for real-time sports analytics and coaching applications.

Tailgate: Zero-Trust Proxy Controller May 2025 — Present
Personal Project [repo](#)

- Built a **Go + Kubernetes controller** that provisions zero-trust Tailscale **proxies within 5s** of service deployment.
- Optimized proxy pods to **boot in <2s with 50MB memory**, ensuring production-grade efficiency.
- Automated **Cloudflare DNS integration**, fully eliminating public ingress attack surfaces.
- Delivered reliability via unit + Kubebuilder-powered **integration tests** on ephemeral clusters.

FileYee: P2P File Sharing App Sep 2024
Personal Project [live link](#) | [repo](#)

- Built a React/Next.js + WebRTC app with **sub-250ms latency** and **10+ GB file transfers** at gigabit speeds.
- Deployed on Vercel with **serverless, privacy-first** architecture, outperforming Snapdrop in speed and reliability.

NotesBhej: Centralized Course Archive Jan 2024 — Present
Founder & Maintainer [live link](#) | [repo](#)

- Founded and scaled a platform to **1000+ monthly active users**, becoming the go-to course archive at IIITM.
- Designed and deployed end-to-end stack (**Next.js 15, Supabase, Firebase, MiniIO, Vercel**) with responsive UI and fast search.
- Led ongoing **product roadmap, scaling, and community adoption**, improving access to academic resources.

Self-Hosted Homelab 2022 — Present
Hobbyist Sysadmin Gwalior, India

- Operated a Proxmox-based homelab running **20+ Docker/Kubernetes workloads** serving **10TB+ of data**.
- Managed self-hosted apps (Nextcloud, Jellyfin, Immich, Vault) with **managed storage, ZFS snapshots, and automated backups**.
- Configured **secure networking (DNS, TLS, VPN, reverse proxies)** for high-availability and resilience.

EDUCATION

B.Tech, M.Tech in Information Technology (CGPA: 8.4/10), Indian Institute of Information Technology and Management, Gwalior, India Nov 2022 — May 2027

Relevant Coursework: Data Structures, Operating Systems, Computer Networks, Database Management, Computer Architecture, Artificial Intelligence

ACTIVITIES

Rotaract Club of Youth, IIITM Gwalior, Member (Community Service Initiatives) 2022 — Present
Flipkart GRiD 7.0, National Semi-Finalist (Software Development Track) 2025