

Mohit Yadav

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SUMMARY

Founding Engineer with **4+ years** taking AI products from zero to scale — agentic and multimodal systems over agent protocols (**MCP/ACP**), custom networking, and low-latency realtime infra — with a sharp read on market, users, and ICP.

EXPERIENCE

Founding Engineer

Figr (Pre-seed to \$2.5M Seed)

2023 – Present

Bengaluru, India

- Led and built a core engineering team and owned architecture across 3 products from 0-to-1; drove data pipelines and technical due diligence for **\$2.5M** funding, and led enterprise engineering (SOC2, GDPR, SSO, multi-region deployment) to **\$250K ARR in 4 months**.
- Architected an **8-service microservices platform** (gRPC, API gateway) for a multimodal AI design agent — Redis Streams orchestration powering multiplayer realtime collaboration with stream catch-up, over a custom **HTTP/2** pool sustaining **1000+ req/s**.
- Built a **Linux-based sandbox runtime** for executing AI-generated apps — full lifecycle management, file-level locking, and serialization for safe parallel file-system access; evolved persistence from rclone bisync to **S3-backed NFS/EFS** mounts.
- Engineered a fully **async task system** running hours-long background jobs that survive **zero-downtime deploys** via load-balancer connection draining.
- Built the agent intelligence layer — multi-scope (user/org/team) memory, **multimodal** video/vision understanding, and **MCP/ACP** connectors, with major **LLM cost reduction** via tiered prompt caching/compaction, cache resharing across parallel tool execution, and pre-baked subagents.
- Engineered a non-blocking parser for **1M+ Figma nodes** — event-loop batching, color clustering, and GridFS chunking for large-file analysis; plus server-side event tracking that cut loss from **15% to 0%** across **10K+ DAU**.
- Shipped the flagship product from scratch in **7 days** — drove the demo that closed a **\$250K** pre-seed, grew to **200K+ users**, and built its **AI search and recommendation engine** (FAISS, SentenceTransformers, GPT-4).

Web Developer

Web Wizards

2022 – 2023

Remote

- Built an enterprise **WebRTC** meeting platform with WebSocket signaling and self-hosted **STUN/TURN** servers for reliable NAT traversal, tuning media routing to **sub-200ms** real-time latency; secured with private rooms, one-time join links, and a 3-tier role-based permission model.

Software Engineer

FertilityNext

2022

Remote

- Engineered a **HIPAA-aware** appointment platform with a PostgreSQL transactional booking engine ensuring conflict-safe slot scheduling for sensitive patient flows.

Founder

Algoders Community (Nonprofit)

2021 – 2024

Remote

- Founded a coding community for beginners; mentored **3K+** students; built the platform (React, Node, MongoDB) with live quizzes and leaderboards.

PROJECTS

WebACP | *TypeScript, Bun, Agent Protocols*

[GitHub](#)

- Built and published **@webacp** — an open-source SDK that brings the **Agent Client Protocol (ACP)** and **MCP** to the web, letting any web app embed and drive coding agents over a typed, streaming protocol.

Figr Identity | *NestJS, Claude Vision, Vector Search*

[View](#)

- Built an **AI design-system generator** (Figma plugin) that turns any UI into full token systems with Claude vision and **10K+** component vector search — shipped to **150K+** users.

TECHNICAL SKILLS

Languages	TypeScript, Python, JavaScript, Go, Rust, SQL
AI/ML	LangGraph, RAG, FAISS, Vision & Multimodal, MCP/ACP/A2A, Prompt Caching/Compaction
Backend/Systems	Node.js, Bun, NestJS, FastAPI, Pydantic, Redis Streams, HTTP/2, gRPC, MongoDB, PostgreSQL
Frontend	React, Next.js, SvelteKit, Redux, Vite, Tailwind CSS, React Flow
Infra/DevOps	AWS (ECS, EFS, S3, Lambda), GCP (Text-to-Speech), Docker, Terraform, GitHub Actions, UV

EDUCATION

Panjab University (UIET)

B.E., Electronics & Communication Engineering

2020 – 2024