

Mahesh N

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SUMMARY

Full stack developer who moved into software from a commerce background and learned by building. I enjoy building websites and software, and outside of code I like video editing. I'm looking for a team where I can keep learning fast and build software people rely on.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Java, SQL
Frontend	React, Next.js, HTML, CSS
Backend	Node.js, Bun, Express, Fastify, FastAPI, Spring Boot, Socket.IO, WebRTC
Databases	PostgreSQL, pgvector, Prisma
AI & Agents	Agent SDKs, multi-agent systems, RAG, A2A protocol, MCP, E2B sandboxes, STT/TTS pipelines
Tools	Docker, Linux, Git, GitHub, Playwright, Figma
Learning	Virtual machines, CI/CD pipelines, cloud deployment

PROJECTS

Agent Yard | *TypeScript, Next.js, Mastra, PostgreSQL, Prisma, Better Auth, E2B* [Live](#)

- Built a multi-tenant platform where non-technical business users set up narrow, single-purpose AI agents in a roster and assign work to them from a Kanban board.
- Agents produce versioned, collaboratively editable documents; generated code runs in isolated E2B sandboxes and third-party apps connect through an integrations layer.
- Added Better Auth sign-in, PostgreSQL data models with Prisma, and OpenTelemetry tracing of LLM calls.

Vector Vault | *FastAPI, Node.js, Express, PostgreSQL, pgvector, React* [GitHub](#)

- Built a multi-tenant RAG platform with a tenant → app → corpus hierarchy, so one company can run several bots (e.g. HR, Support), each over its own isolated documents.
- Ingests PDF, DOCX and TXT files into chunked 1024-dim embeddings in pgvector; answers use two-stage retrieval (tenant-scoped cosine search, then a reranker) and cite their sources.
- Split AI work into Python FastAPI microservices behind a Node.js gateway (JWT and API-key auth), and added a voice mode with client-side voice detection, Whisper speech-to-text and TTS.

CineStream | *Next.js, React, Prisma, PostgreSQL, Better Auth, TanStack Query* [GitHub](#)

- Built a streaming app for movies, TV and anime using TMDB, AniList and MyAnimeList data, with Google sign-in.
- Wrote a pluggable video player that falls back to the next server on failure, with season/episode selection and anime sub/dub switching.
- Stored per-user watchlists and watch progress in PostgreSQL to power “Continue Watching”.

Turnstile – Event Booking | *Java, Spring Boot, React* [GitHub](#)

- Designed a REST API with JWT authentication and role-based access for admins and users.
- Used optimistic locking so tickets cannot be oversold during concurrent bookings, verified with a concurrency test.

Chat App | *React, Express, Socket.IO, PostgreSQL, Cloudinary* [GitHub](#)

- Built WhatsApp-style real-time messaging with 1-to-1 and group chats over Socket.IO.
- Added read receipts, reactions and media sharing with files stored on Cloudinary.

Also built: an A2A protocol implementation (Python, JSON-RPC 2.0, SSE), agent SDK internals from scratch (tool harness, sub-agents, MCP), and multi-agent research and GitHub PR-review agents.

EXPERIENCE

Accountant May 2025 – Dec 2025

Kempaiah GST Consultant

- Prepared client invoices in Tally and handled GST return filing for clients.

EDUCATION

Bachelor of Commerce (B.Com) 2022 – 2025

M H College of Management Science, Ramanagara, Karnataka 77%

Relevant coursework: Artificial Intelligence, Data Analytics, Computer Science

Pre-University Course (PUC) 2020 – 2022

M H Pre-University College, Ramanagara, Karnataka 78%

LANGUAGES

English (professional) · Kannada (native) · Hindi (native)