

AVADHOOT SMART

Software Engineer · Backend & Systems (Go) · Pune, India

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SKILLS

Languages: Go, Python, TypeScript, JavaScript, SQL
CS Foundations: Data Structures, Algorithms, OOP, System Design, Concurrency, REST API Design
Backend: Go-Fiber, Node.js, Express.js, FastAPI, Microservices, Webhooks, WebSockets, RBAC, OAuth, Redis, GORM, PrismaORM
Databases: PostgreSQL, MongoDB
DevOps: AWS (EC2, S3, RDS), Docker, Vercel, CI/CD, Linux
Frontend: Next.js, React, TailwindCSS
Tools: Git, Postman

WORK EXPERIENCE

- Software Engineer Intern**
Heizen

Feb 2026 – Present
Remote, IN

 - Sole developer of **Worktrace**, a production desktop app – re-engineered the existing **Nextron (Electron)** build to **Wails (Go)**, cutting the binary from ~150MB to **48MB** and lowering idle memory footprint.
 - Shipped native desktop features end-to-end: tray lifecycle management, **Screenpipe** screen capture, background cloud sync, and org-level access controls.
 - Designed a **custom URL protocol** handler to drive and authenticate desktop state directly from the companion web app, removing manual setup for users.
 - Built **ConstructMind**, an agentic AI service that generates **Primavera P6** project schedules from natural language – implemented a **RAG pipeline** over construction-domain documents and a multi-step **LangGraph** agent using the Vercel AI SDK.
 - Integrated the AI service into a **Node.js / Express.js** backend as an async, **webhook**-driven microservice, decoupling long-running generation from the request path.
- Founding Engineer (Freelance)**
Reachoout

Apr 2025 – Aug 2025
Remote, IN

 - Built a **multi-tenant SaaS** portfolio builder from scratch – tenant-isolated **PostgreSQL** schemas with a **Next.js Server Components** rendering engine and live preview editor.
 - Implemented wildcard subdomain routing via **AWS Route 53** + Vercel APIs, enabling custom-domain white-labeling and per-tenant engagement analytics.
- Software Developer Intern**
Engineer's Cradle

Sept 2024 – Feb 2025
Maharashtra, IN

 - Built a modular **NPM component library** of 50+ reusable React components, cutting duplicated UI work across internal teams.
 - Optimized server-state with **React Query** caching and built type-safe REST integration layers; used **Docker** for dev/prod environment parity.

PROJECTS

- DevX – Developer Practice Platform | Next.js, Go, Docker, PostgreSQL**

Source | Live

 - Built a **sandboxed RCE engine** using **Docker** for full process/filesystem isolation of untrusted user submissions.
 - Developed **Go Fiber + GORM** backend maintaining <500ms execution latency; integrated **esbuild-wasm** for in-browser bundling, eliminating server-side compilation.
- Vybe – Collaborative Music Streaming | Next.js, Node.js, WebSockets, Go**

Source | Live

 - Designed a **WebSocket sync engine** for low-latency shared playback across concurrent rooms; integrated **Spotify OAuth + Web Playback SDK** with **yt-dlp** delivery to drop external API dependency.

EDUCATION

- Savitribai Phule Pune University**
Bachelor of Engineering – Information Technology

Maharashtra, India
Aug 2022 – June 2026