

PALASH DEBNATH

Agentic Software Designer and Software Engineer

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35k+ GitHub stars · 121k+ release downloads · 6 shipped products · 10 articles

SUMMARY

Founder of YUPCHA, based in Agartala, India. I design AI agents and build open-source, local-first desktop apps and developer tools: 6 shipped products with 35k+ GitHub stars and 121k+ release downloads. I own the full loop: systems work in Rust, Zig, and CUDA; desktop apps; web on TypeScript and Cloudflare Workers; releases and support. Flagship: VoiceStudio.sh, an open-source local AI voice studio (35k+ stars).

EXPERIENCE

YUPCHA

Present

Founder and Independent Open-Source Builder

Local-first, privacy-respecting software

- Ship and maintain 6 open-source products and 19 smaller public repos; 35k+ GitHub stars and 121k+ stable-release downloads combined.
- Run the full product loop: architecture, implementation, docs, releases, and community support.
- Write about engineering and AI at palash.dev (10 articles).

PROJECTS

VoiceStudio.sh | *Python, Tauri, CUDA, Docker, MLX, Whisper*

35k stars · 120k downloads · v0.5.6, Sep 2026

- Desktop studio for voice cloning, voice design, generation, dubbing, dictation, and audiobooks; runs locally, no subscription.
- Engine layer: 16 TTS + 11 ASR engines across 646 languages on CUDA, Apple MLX, ROCm, or CPU; OpenAI-compatible local API and MCP server.

Bootable | *Rust, GPUI, Ratatui, UEFI*

7 stars · 25 downloads · v0.1.1, Aug 2026

- Native desktop app and mouse-enabled TUI; removable-media-only guards, hash and byte verification, cancellable writes; Linux, Windows, macOS.

memxt | *Zig, LLM, MCP, AI Memory*

33 stars · 67 downloads · v0.4.0, Jul 2026

- Single static Zig binary: MCP tools and session hooks, local embeddings (llama.cpp), sqlite-vec search; ~10 ms wake-up, sub-ms warm search.

Opal | *Zig, AI, Desktop*

64 stars · 1.1k downloads · v0.8.5, Sep 2026

- One native window for files, sites, servers, and feeds; natural-language request-to-playback; plugin endpoints evolve without growing the core.

OpenGTM | *Python, FastAPI, React, PostgreSQL, Docker, MCP*

20 stars

- Lead sourcing, enrichment waterfalls, AI research, and activation in one self-hosted workspace; bring-your-own keys with cost estimates before each run.

Friday | *Python, FastAPI, Qwen, Parakeet, Piper, SQLite*

7 stars · alpha

- Voice and text assistant on local models (Qwen, Parakeet, Piper) with SQLite memory and bounded tool families; no required hosted calls.

TECHNICAL SKILLS

Languages: TypeScript, Rust, Zig, Python, Go, SQL

AI / audio: TTS + ASR pipelines (16 TTS / 11 ASR engines), Whisper, CUDA, MLX, llama.cpp, MCP servers, agent memory (sqlite-vec)

Systems: Tauri desktop apps, GPU offload (CUDA / MPS / ROCm), Docker, static binaries, UEFI / boot media

Web: SolidJS, Cloudflare Workers (streaming SSR), Vite, edge caching, SEO / structured data

WRITING

10 articles on engineering, AI, and local-first software at palash.dev/blog. Recent: "What Local-First Has to Explain"; "Opal: Play Everything".