

ATHARVA PATIL

Software Engineer · Founder · Product Builder

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SUMMARY

Software engineer and product builder focused on desktop applications, developer tools, and systems programming. Founder of Northbyte Studios, where I independently design, build, test, and ship privacy-first software — currently an encrypted vault, two Linux distributions, and a compiled programming language.

EXPERIENCE

Northbyte Studios — Founder & Independent Software Studio

2026 – Present · Navi Mumbai (remote-friendly)

- Own the full product cycle myself on every project below: direction, architecture, engineering, UI/UX, testing, and release.
- Every product ships on the same principles — no telemetry, trade-offs explained on-screen, free wherever the studio can afford it to be.

Freelance — Web, UX & Brand

2025 – Present

- Independent client work in web development, UI/UX, and 3D/VFX visualization, including a full production website build for a performing-arts academy.

SELECTED PROJECTS

Nexus — Encrypted Personal Vault

Mar 2026 – Present · Windows Desktop

- Built a Windows encrypted vault using AES-256-GCM authenticated encryption and Argon2id key derivation, with Windows Hello as a secondary unlock.
- Zero telemetry, zero cloud — content stays encrypted at rest and exists decrypted only in memory while the vault is unlocked.
- Rebuilt the entire v11 interface (lock screen, media browser, credentials, notes, settings, updater) without touching the cryptographic core underneath it.

Mission OS — Privacy-First Linux Distribution

2026 – Present · Linux, GPLv3

- Building a privacy-first Linux distribution on Debian Stable and KDE Plasma, with an installer that explains the trade-off of every advanced option next to the toggle instead of burying it in docs.
- 141/141 pixel checks passed on the installer foundation, backed by 14 CTest and 13 runtime suites.

MINK — Programming Language

2026 – In Development · Rust, Apache 2.0

- Designing and building a compiled, general-purpose language from scratch — its own lexer, parser, type system, optimizer, and native code generator, producing a working executable with no external toolchain.
- 878 compiler tests passing.

Pursue OS — Investigation-Focused Linux OS

2026 – Present · Linux, Apache 2.0

- Building a Linux OS for OSINT, DFIR, and evidence-driven investigation work, centered on two flagship surfaces: an Investigation Terminal and an Investigation Browser with integrated Tor.

ADDITIONAL PROJECTS

Kanvaz — Electron visual reference workspace for VFX artists · MIT · v4.2.2, final release

Obscura — Luau AST toolkit for Roblox developers · MIT · v1.0.0, 340/340 tests passing

repo-map — TypeScript engineering-intelligence CLI, published on npm · MIT · 870+ tests

TECHNICAL SKILLS

LANGUAGES	C#, Rust, TypeScript, C / C++, JavaScript, Lua / Luau
FRAMEWORKS	.NET 8, WPF, Node.js, Astro, Qt / QML, Debian Linux
SECURITY	AES-256-GCM, Argon2id, LUKS2, TPM, Secure Boot, Windows Hello
TOOLS	Git / GitHub Actions, VS Code, FFmpeg, Cloudflare Pages

EDUCATION

B.Sc. Animation — D. Y. Patil University, Nerul, Navi Mumbai

2025 – 2028 · second year in progress