aditya

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github / twitter / linkedin

> ABOUT

// bio

An engineer by choice. It bugs me how slow and messy most software is, so I build things the way they should work: fast, without the bloat, and knowing what's actually going on underneath.
Right now, building embedded storage engines and speeding up mundane routines using SIMD.

> EXPERIENCE

// 2021 → mobile · 2024 → web & tooling · now → systems

[Systems Engineering · pid7-org] Sep 2024 — Present

role: Core Contributor · Systems Architecture & Implementation
repos: turbofox · ashwa · turbo_crc · frozen-core · kosa
stack: Core: Rust · SIMD | Concurrency: Lock-Free | Storage: Memory-Mapped I/O
impact: Shipped a lock-free concurrent KV engine with memory-mapped I/O and explicit sync barriers; production SIMD paths prioritize deterministic latency and memory efficiency

[Freelance & Contract · Web & Tooling] Jul 2024 — Present

role: Full-Stack Developer & Tooling Engineer · 3 Clients
stack: Frontend: Astro · TypeScript | Backend: Microservices | Tooling: VS Code API
impact: Delivered transactional email service and event-ticketing platform end to end; built VS Code extensions for internal developer workflows across client projects

[Internships · Mobile Engineering] Nov 2021 — Apr 2024 · 9 mos total

orgs: kraftbase (1 mo) · Rojgary (5 mos) · FOLKDevelopers (3 mos)
stack: Flutter · Dart · Reactive State Management · REST APIs
impact: Built MVP mobile apps for clients from scratch, refactored codebases & enhanced reliability

> PROJECTS

// featured projects across orgs & personal

turbofox — Embedded concurrent KV storage engine with memory-mapped persistence & lock-free index
ashwa — Hardware accelerated routines for single substring search using AVX2 SIMD intrinsics
turbo_crc — Hardware accelerated CRC32C checksum calculation using dedicated CPU instructions
shyena — Keyboard-first automation launcher & transient PowerShell runtime for Windows

> WRITING

// recent posts

I Built a Bridge So I Could Use Gemini 4 Neon in Antigravity — Nov 25, 2026
There's More to Performance Than Big-O — Sep 15, 2026
Searching through 150 GiB of Text per Second with SIMD — Sep 2, 2026

> TELEMETRY

// metrics

prs: **97.4% merge rate** (228 merged)
churn: **1.71:1 ratio** (+1.78M / -1.04M)
stack: **Rust 67%** · TS 12% · C 1% · Asm 4%
scope: **50% org** · 50% personal
streak: **12d current** (112d max)
repos: **53 tracked** (18 pub · 10 pri)

> EDUCATION

// degree & background

degree: **B.Tech (CSE)**
major: Computer Science & Engineering
period: Jun 2020 - Jun 2024 (4 yrs)
inst: Marathwada Inst. of Technology