

Alex Metelli

Backend / Developer Tools Software Engineer | 5 Years Experience

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SUMMARY

Software Engineer with 5 years of experience building backend systems, developer infrastructure, blockchain tooling, and AI-assisted engineering workflows. Strong fit for backend/platform/developer-tools roles through professional engineering at Nethermind, shipped product work, and merged OSS contributions to company-led and foundation-led projects including Supabase CLI, Apache DataFusion, Starknet Foundry, Voyager Verifier, Dojo Engine, and Apibara DNA. Core stack: TypeScript, Go, Rust, Python, SQL, PostgreSQL, APIs, CLIs, CI/CD, tests, and local/deployed infrastructure.

CORE SKILLS

- Backend / platform: TypeScript, Go, Rust, Python, SQL, REST APIs, Hono, PostgreSQL, SQLite, Drizzle, API clients, schema validation, data ingestion, and service diagnostics.
- Developer tools / infrastructure: CLI design, machine-readable output, local-state isolation, path/config handling, GitHub Actions, CI/CD, release automation, regression tests, smoke checks, lint/typecheck/build gates, Docker, and observability.
- Blockchain infrastructure: Starknet, Cairo, Solidity-adjacent workflows, EVM ecosystems, contract verification, Starknet Foundry, Voyager Verifier, Sozo, Dojo Engine, Apibara DNA, LayerZero, Hyperlane, and AggLayer.

EXPERIENCE

5 years total software engineering experience across professional backend/blockchain infrastructure, open-source developer tooling, and shipped product/backend systems; selected evidence below.

Nethermind - Software Engineer, Blockchain Infrastructure

Remote | Apr 2024 - Jun 2026

- Built backend systems and developer tooling in Rust, TypeScript, Python, Cairo, and Solidity across Starknet, cross-chain, ZK, and verification workflows.

- Authored 27 merged PRs to Voyager Verifier, evolving a Rust Starknet contract-verification CLI/library across API client design, file/source resolution, config/history/status/batch workflows, Dojo support, documentation, release automation, and public library extraction.

- Authored 7 merged PRs to Starknet Foundry, including sncast verify Voyager verification support, verifier file-gathering UX, network-selection fixes, payload compatibility, e2e coverage, and migration to the Voyager verifier library.

- Worked on cross-chain infrastructure touching Starknet, LayerZero, Hyperlane, AggLayer, and EVM ecosystems, with emphasis on secure integration, validation, and troubleshooting.

SELECTED OSS CONTRIBUTIONS

Supabase CLI - TypeScript/Go Developer Tools

github.com/supabase/cli/pull/5624 + [/pull/5687](https://github.com/supabase/cli/pull/5687)

- Contributed two merged Supabase CLI PRs across Go and TypeScript paths: consistent SUPABASE_HOME isolation for token/profile/cache/telemetry state and machine-readable supabase start --output json output for automation.

- Added regression coverage across Go utility/status/start tests, TypeScript auth/config resolver tests, legacy start integration tests, and command side-effect documentation in a mixed-language monorepo.

Apache DataFusion - Rust Data Infrastructure

github.com/apache/datafusion/pull/22948

- Contributed merged SQL planner diagnostics that warn on likely mistaken NULL equality predicates across WHERE, JOIN ON, and HAVING paths with regression coverage.

Dojo Engine / Apibara DNA - Blockchain Infrastructure

- Authored 10 merged PRs to Dojo Engine across Cairo ERC20/ERC721 modules, GDA/VRGDA Dutch-auction and constant-product market primitives, tests, and Sozo Voyager contract-verification tooling.

- Authored 3 merged PRs to Apibara DNA for Starknet devnet integration, SDK/sink connector configuration, and PostgreSQL sink behavior for indexing pipelines.

SELECTED PROJECTS

AgentReceipt - Go Developer Tooling

github.com/ametel01/agentreceipt

Built a local-first Go CLI that observes AI coding sessions, captures commands/edits/tokens/warnings, and exports signed hash-chained review evidence for safer AI-assisted development.

ScopePilot - Backend/SaaS Product Engineering

scopepilot.launchingfoundry.xyz

Built TypeScript/Bun SaaS architecture with Astro/React frontend, Hono worker API, PostgreSQL/Drizzle data layer, Stripe billing flows, Cloudflare deployment targets, and automated quality gates.