AREMU MALIK Lagos, Nigeria | github.com/malik672 | aremumalik05@gmail.com

High-Performance Rust Systems Engineer *Specializing in EVM internals and low-level performance optimization.*

TECHNICAL SKILLS

- **Languages:** Rust (Expert), Solidity, TypeScript, Assembly.
- **Deep Tech:** EVM implementation (revm), Ring Buffers.
- **Performance:** Godbolt/Assembly optimization, Pointer manipulation, Branch prediction (`likely`/`unlikely`), `assume!` Intrinsics.

PROFESSIONAL EXPERIENCE

Independent Open Source Engineer | *2023 – Present*

- **Revm (Rust EVM):** Replaced `BTreeMap` with a fixed-size ring buffer for block hash caching, this optimized the data path to achieve a **25.8x speedup** in continuous inserts.Here
- **Revm (Rust EVM):** Optimized interpreter stack logic using `core::ptr::write`. Reduced overhead so significantly that an execution thread now processes pushes **5.4x faster**.Here
- **Solar (Solidity Compiler):** Conducted deep assembly analysis to find optimizations missed by previous contributors. Optimized the compiler's "internal wings" to handle complex AST parsing with lower latency.
- **Reth (Paradigm):** Identified and fixed a critical performance bottleneck in nibble serialization (`to_compact`). By replacing inefficient byte-by-byte iteration with bulk `memcpy` operations, I eliminated redundant bounds checking and branch mispredictions. Issue, [Fix](Fix)

Creator & Lead Maintainer | Uniswap-SDK-Core-Rust

- Ported the Uniswap core SDK to Rust, focusing on memory efficiency and zero-cost abstractions.

EDUCATION Bachelor of Science in Computer Science | 2022

- *Note: I am a merit-focused developer with a track record of merging performance-critical code into industry-standard Ethereum infrastructure.*