

# Ismael Medeiros

Senior Backend Engineer | Brasilia, BR

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## SUMMARY

Senior Software Engineer with 8+ years building high-throughput blockchain data infrastructure. Redesigned event pipelines to 30k events/sec, cut CPU usage 50% through system-level profiling, and led cross-functional teams on tokenization and billing platforms. Specialized in Go, EVM indexing, and large-scale distributed systems; currently deepening expertise in IPFS metadata, Oracles, AI agents, MCP.

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## SKILLS

**Core:** Go, Node.js/TypeScript, SQL, EVM Indexing, go-ethereum, ERC-20/ERC-721/ERC-1155 tokens

**Infrastructure:** OpenSearch, PostgreSQL, Redis, Faktory

**Cloud & DevOps :** AWS (EC2, ECS, RDS), Terraform, Docker, GitHub Actions, Grafana, K6, Kubernetes

**Exploring:** IPFS metadata, Oracles, AI agents, MCP

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## EXPERIENCE

**Senior Software Engineer – Blockparty** | June, 2025 - Present | Remote

- Migrated transfer-events pipeline from sequential Postgres processing to batch architecture (Faktory + OpenSearch), increasing throughput 30x from 1k → 30k events/sec while solving production idempotency and deduplication failure
- Owned end-to-end design and delivery of a custom Stripe billing infrastructure for a SaaS product, including subscription lifecycle management, metered usage, and idempotent webhook handling

**Software Engineer – Blockparty** | January, 2024 - June, 2025 | Remote

- Identified and eliminated the system's critical CPU bottleneck using pprof profiling; redesigned the locking strategy to achieve a 50% reduction in CPU usage, unlocking headroom for sustained traffic growth
- Architected a K6 load-testing framework simulating up to 10k req/sec, establishing periodic stress tests as a reliability gate before production deployments
- Modeled RPC provider costs against live Ethereum, Base, Polygon and Optimism traffic to drive strategic vendor selection and reduce operational expense

**Tech Lead – Lacuna Software** | June, 2023 - December, 2023 | Remote

- Led a 5-engineer team building a real estate tokenization platform – ran architecture reviews, set testing standards, and owned delivery within tight regulatory deadlines

**Senior Software Developer – Lacuna Software** | July, 2022 - June, 2023 | Remote

- Designed and deployed a Golang smart contract for real-estate tokenization on Hyperledger Fabric, aligning with EIP-20/ERC-721 standards to enable Brazilian notary-administered asset digitization
- Reduced SQL query latency 50% on a budget-constrained cloud environment through execution plan analysis, strategic caching, and index redesign

**Backend Engineer – Avantstay** | February, 2022 - June, 2022 | Remote

- Contributed to a microservices platform with GraphQL, Kafka, Redis, and Kubernetes – gained hands-on production experience with high-availability distributed systems at scale

**Software Developer – Lacuna Software** | March, 2016 - June, 2021 | Remote and Brasilia, BR

- Led full-stack delivery of a multi-client project, managing a developer team through design, architecture, and milestone execution
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## OPEN SOURCE

**DogeFuzz** – <https://github.com/dogefuzz/dogefuzz>

- Extended go-ethereum's EVM with custom Solidity bytecode instrumentation – enabling coverage analysis, storage mutation tracking, and execution-pattern profiling for dynamic smart contract analysis
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## EDUCATION

**Master of Science (M.S. in Computer Science) – University of Brasilia** | 2020 – 2022

**Bachelor of Science in Computer Engineering** | 2014 – 2018