

Jorge Luis Jimenez O'Relly

Backend Software Engineer

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SUMMARY

Backend software engineer with 5+ years building high-throughput payment and fintech systems at Bitrefill, the world's largest crypto-only e-commerce platform. Specializes in API design, multi-blockchain payment infrastructure, and performance-critical distributed systems. Left Bitrefill in 2025 to complete a B.S. in Computer Science full-time (*Magna Cum Laude*, May 2026).

EXPERIENCE

Backend Engineer, Bitrefill

Jun 2020 - Aug 2025

Remote (Sweden)

Promoted from Backend Engineer Intern

- Led backend development of a **crypto-funded Visa debit card** with a licensed third-party card issuer (KYC/AML onboarding, **fraud controls**, issuer integration), taking it from design through **EU/EEA-wide launch** and its first year of production growth.
- Designed a fault-tolerant payment-detection engine (**Node.js/TypeScript**) that monitors and settles cryptocurrency payments across **8+ blockchains concurrently**, cutting median detection-to-settlement time **from ~8s to ~4s** versus the previous sequential pipeline.
- Redesigned two core payment-method flows on a high-traffic storefront with **zero downtime**, lifting checkout conversion **by ~6%** and cutting p95 payment-API latency **from 700ms to 250ms**.
- Hardened critical payment services against **replay and double-spend** by enforcing **idempotency** and strict input validation, and raised their automated test coverage **from 45% to 85%** (Jest, Mocha).
- Carried **on-call** for production payment infrastructure, triaging incidents across blockchain nodes, card systems, and vendor integrations backed by **monitoring and alerting**.
- Migrated legacy data stores to MongoDB with redesigned schemas and indexing, cutting **p95 query latency from 1.2s to 50ms** on hot read paths.
- Designed and built integrations with multiple gift-card vendor APIs (**REST** and **SOAP**), processing **100k+ requests/day** and **millions of EUR** in weekly transaction volume.

PROJECTS & OPEN SOURCE

Independently designed and built while completing the B.S. — more at github.com/jorge-jlm

- **Syntony** (TypeScript, gRPC) — Distributed data store built on CRDTs for conflict-free replication, with a SWIM-style gossip protocol over gRPC for cluster membership and failure detection.
- **Tieout** (TypeScript) — Open-source payments-reconciliation engine that ingests transaction records from ledgers, payment processors, banks, and stablecoin rails, matches them across sources, and records every run in an immutable audit log. Live demo: tieout.jorgejim.com.
- **Airclip** (Go) — Cross-platform clipboard tool that brings Apple's iPhone-to-Mac universal copy-paste to any platform.

TECHNICAL SKILLS

Languages: TypeScript, Node.js, Go, Rust, Python

Backend & APIs: REST & SOAP APIs, gRPC, microservices, distributed systems, message queues (BullMQ)

Payments & Fintech: idempotency, settlement & reconciliation, card issuing (KYC/AML, fraud controls)

Data: SQL (PostgreSQL), NoSQL (MongoDB, Redis / Valkey), Drizzle ORM, schema design, query optimization

Testing: TDD, unit & integration testing, Jest, Mocha

Frameworks & Libraries: Express.js, Hono, Gin, Next.js, React

DevOps & Ops: Docker, Linux, AWS, CI/CD (GitHub Actions, Jenkins), monitoring & alerting, incident response

EDUCATION

B.S. in Computer Science, *Magna Cum Laude*, Florida International University, Miami, FL

May 2026

A.A. in Computer Science, Miami Dade College, Miami, FL

Dec 2024