

Kevin Ramos

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SUMMARY

Backend Engineer with 6+ years of remote experience building distributed systems for fintech and digital asset platforms. Experience spans wallet infrastructure and regulatory compliance automation, including Travel Rule implementation and multi-jurisdictional KYC/AML for crypto exchanges. Architected microservices handling millions of transactions using Node.js, PostgreSQL, NSQ, Temporal and Kubernetes. Delivered 23% user retention increase and \$175K+ annual infrastructure cost savings through optimization initiatives.

TECHNICAL SKILLS

- **Languages & Runtime:** Node.js, TypeScript, JavaScript, SQL
- **Frameworks & APIs:** Express, REST, GraphQL, gRPC
- **Databases & Caching:** PostgreSQL, Redis
- **Message Queues & Orchestration:** Kafka, NSQ, Temporal
- **Cloud & Infrastructure:** AWS, GCP, Docker, Kubernetes
- **Compliance & Regulations:** KYC/AML, VASP, MiCA, Travel Rule, Notabene, Sift, Unit21

EXPERIENCE

- **Uphold** Remote
Backend Engineer *Jul. 2022 - Present*
 - **Wallet Infrastructure & Compliance Engineering:** Built high-reliability wallet experiences, identity and compliance primitives, and backend infrastructure powering global asset transfers. Developed systems intersecting with self-custody flows and multi-jurisdictional compliance. (10M+ users, 150+ countries, 250+ assets, 4B+ annual transactions)
 - **Automated Multi-Jurisdictional Compliance Onboarding:** Designed and implemented automated KYC/AML onboarding workflows supporting 5+ regulatory frameworks including Portuguese VASP, EU MiCA, and Travel Rule requirements via Notabene integration. Reduced onboarding time from 72 hours to under 11 hours while enabling compliant expansion into new markets with minimal engineering overhead.
 - **Campaign Mechanism for User Engagement:** Architected and deployed campaign system enabling dynamic alerts, gamification banners, and promotional campaigns. Built event-driven architecture using NSQ and Temporal for reliable campaign delivery across multiple channels, resulting in 23% increase in user retention and 15% boost in feature adoption.
 - **Wallet Contacts & Invites Redesign:** Redesigned wallet contacts and referral invitation system to eliminate fund locking issues and ensure atomic user creation only upon invitation acceptance. Implemented idempotent workflows using Temporal, reducing customer support tickets by up to 90%.
 - **Infrastructure Optimization & Cost Reduction:** Contributor to database optimization initiative: upgraded PostgreSQL infrastructure, eliminated redundant indexes reducing storage by 30%, and optimized query performance. Reduced daily database costs by \$40 per instance. Rationalized observability stack logging, cutting monthly monitoring costs by 17%. (\$175K+ annually)

Technologies: Node.js, TypeScript, JavaScript, REST, GraphQL, gRPC, PostgreSQL, Redis, NSQ, Temporal, Docker, Kubernetes, AWS, KYC/AML, VASP, MiCA, Travel Rule, Notabene, Sift, Unit21
- **CUF** Remote
Software Engineer *Jun. 2019 - Jun. 2022*
 - **Healthcare Program Transformation:** Spearheaded a 3-year initiative within a major healthcare program (valued at > 40M€) aimed at transforming the clinical core system of Portugal's largest private healthcare provider, CUF.
 - **Backend-for-Frontend (BFF) System Overhaul:** Collaborated in an omni-channel team to overhaul the backend-for-frontend common layer, transitioning from a containerized on-premises "monolithic" solution to a Kubernetes microservices cloud architecture.
 - **API Gateway Management:** Managed API gateways (both internal and external) servicing all customer channels, resulting in a 25% decrease in response time and a 15% increase in system availability.

- **Testing & Quality Engineering:** Established comprehensive testing strategy using Jest for unit and integration tests, achieving 80%+ code coverage and reducing production bugs by 30%. Implemented CI/CD pipelines with automated test gates, enabling safe deployments of 20+ releases monthly.
- **Agile Development and Feature Deployment:** Actively engaged in end-to-end coding to swiftly deploy urgent features, contributing to a 22% reduction in time-to-market for critical functionalities.

Technologies: Node.js, JavaScript, TypeScript, GraphQL, Express, Docker, Kubernetes, Kafka, GCP, Redis, Jest

EDUCATION

- **University of Lisbon - ISCTE** Lisbon, Portugal
Master of Science in Computer Science and Business Management *Sept. 2018 – Sept. 2019*

Master's Thesis: Developed CNN-BiLSTM-CRF deep learning model for automated product attribute extraction from e-commerce descriptions, achieving 64% macro-average F1-score on custom datasets with previously unseen products.

- **University of Lisbon - ISCTE** Lisbon, Portugal
Bachelor of Engineering in Computer Science and Business Management *Sept. 2014 – Jun. 2018*

NOTABLE PROJECTS & ACHIEVEMENTS

- **Open Source Contributions:** Created and maintain open source packages for Node.js:
 - **Booking Mechanism** - Library for managing reservations and scheduling. Published on npm.
 - **Cookie Consent** - Cookie consent management library for GDPR compliance with customizable UI.
- **KPMG & OutSystems Hackathon - Winner:** Won environmental tech hackathon. Built QRGarbage mobile app using QR codes and geolocation for waste management.

LANGUAGES

English (Fluent), Portuguese (Native), Spanish (Basic)