

Eduardo Antonio Espinosa Grimaldo

SENIOR SOFTWARE ENGINEER

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SUMMARY

Senior Software Engineer with 10+ years of experience building production systems across fintech, marketplaces, and data-intensive products. Combines deep expertise in React, React Native, and TypeScript with hands-on backend experience using Python, Django, Node.js, relational databases, asynchronous processing, and third-party integrations. Designs APIs, background jobs, financial synchronization workflows, observability systems, and scalable user experiences for platforms serving millions of users. Proven track record of modernizing legacy systems, improving operational reliability, and owning complex initiatives from architecture through production rollout. Leverages AI-assisted development tools such as Claude Code and Cursor to accelerate codebase exploration, implementation, refactoring, testing, documentation, and debugging while maintaining rigorous engineering review and quality standards.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Frontend & Mobile: React, Next.js, React Native, Vue, Nuxt.js, Angular, Hyperview

Backend & Data: Django, Node.js, REST, GraphQL, MySQL, MongoDB, Neo4j

Async Systems & Architecture: Celery, RabbitMQ, background jobs, batch processing, distributed systems, eventual consistency, idempotency

Payments & Integrations: Stripe, Hyperwallet, VGS, NetSuite

Cloud, Testing & Observability: AWS, Docker, Kubernetes, Pytest, Jest, Datadog, Sentry, Amplitude

AI-Assisted Development: Claude Code, Cursor, codebase analysis, refactoring, testing, documentation

EXPERIENCE

Senior Software Engineer - Instawork

2021-2025

Remote, USA

- Owned full-stack delivery of payment, invoicing, reconciliation, and worker payout capabilities using Python, Django, React, React Native, and TypeScript.
- Helped re-architect the NetSuite financial synchronization platform from model-triggered signals to scheduled asynchronous batch processing using Django, Celery, service-layer processors, and dedicated task queues, reducing synchronization errors by approximately 90%.
- Led frontend and integration work for Instawork Card, delivering secure debit-card workflows, transparent fee handling, transaction visibility, and resilient error states that improved worker trust and contributed to a double-digit increase in worker retention.
- Led full-stack delivery of W-2 Instapay, enabling eligible workers to access earnings immediately after clock-out while implementing eligibility logic, payout calculations, confirmation flows, and safeguards that contributed to a double-digit increase in business margins.
- Designed and implemented backend processors for invoices, payments, deposits, refunds, credit memos, and application records, including selectors, serializers, third-party API integrations, validation, error handling, and idempotency controls.
- Built periodic jobs, background tasks, and backfill utilities for high-volume financial workflows, incorporating configurable batch sizes, feature flags, dry-run execution, deterministic processing, and safeguards against duplicate work.

- Added structured logging, Datadog metrics, admin tooling, and operational dashboards that improved visibility into synchronization failures and simplified investigation for Finance and Engineering.
- Modernized shared mobile infrastructure by migrating core React Native components from Flow and JavaScript to TypeScript and improved large-data interface performance through virtualization and memoization.

Senior Frontend Developer - Cornershop by Uber

2021

Remote, Mexico

- Served on a SWAT engineering team responsible for resolving high-impact production issues and delivering urgent features across multiple product domains.
- Contributed to React and React Native applications while rapidly adapting to different architectures, ownership boundaries, and engineering standards.

Frontend Tech Lead / Co-Founder - Stateofheart AI

2020-2021

Remote, USA

- Led frontend architecture for an AI research platform using Vue, Nuxt.js, GraphQL, and D3.js while contributing to API integration and data-modeling decisions.
- Designed interactive visualizations representing relationships among research papers, authors, machine-learning models, and datasets.
- Helped launch and iterate the product from initial concept through acquisition by Instawork, balancing technical scalability with rapid product experimentation.

Senior Frontend Developer - Paybook

2019-2020

Remote, USA

- Built embeddable fintech workflows for bank-account and tax-account synchronization across external client applications.
- Designed reusable widget architecture supporting custom themes, layouts, authentication states, and integration requirements.
- Improved asynchronous financial synchronization workflows through stronger state management, error recovery, and transparent status communication.

Senior Frontend Developer - Marciano Studio

2014-2019

Mexico

- Led frontend delivery across e-commerce platforms, enterprise applications, data products, and interactive digital experiences.
- Defined reusable UI architecture and implementation standards while working with clients, designers, and backend engineers to deliver maintainable production systems.

Frontend Developer - Corebook

2012-2014

Mexico

- Developed production web interfaces and reusable components while building foundations in JavaScript, responsive design, browser compatibility, and collaborative software delivery.

EDUCATION

Advanced Diploma in Leadership, Strategic Planning & Execution - UNAM, 2025

Bachelor of Technology - UNAM, 2008-2012