

ROBERT RUBEN

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PROFILE

Full-Stack Software Engineer focused on **Python/Django backend**, with 10+ Django projects maintained over the years. Specialized in distributed platforms for payment processing, fraud detection and financial analytics, with experience in FastAPI, NestJS and Angular frontends. Strong practice of TDD, security hardening and AI/LLM integration.

EXPERIENCE

Full-Stack Software Engineer (Python Backend)

Treew

Remote

- Designed and maintained the core payment-processing platform (Django / DRF) unifying 50+ payment gateways behind a common processor layer, with a versioned REST API over REST, SOAP/XML and hosted payment pages, including 3D Secure and tokenization.
- Built a fraud-detection microservice from scratch (Django 5.1) integrating multiple anti-fraud providers (fingerprinting, geolocation, sanctions screening) into a unified score, with Apache Kafka events and forensic document verification.
- Developed a financial-analytics API (FastAPI, Python 3.13) on TimescaleDB (hypertables and continuous aggregates), with resilient Kafka ingestion (dead-letter queue), anomaly detection and async PDF/Excel reporting via Celery.
- Designed a microservice-orchestration hub (NestJS) with a hub-and-spoke architecture over OAuth2 and an extensive REST API, maintaining 100% test coverage with CI thresholds.
- Maintained and evolved an Elasticsearch-based search system, optimizing indexing and queries over large transaction volumes.
- Implemented an AI agent-orchestration engine (ReAct loop) with tool-calling and SSE streaming over a multi-provider LLM layer (OpenAI, Anthropic, DeepSeek), with prompt versioning and cost analytics.
- Built Angular supervision frontends: transaction dashboards and interactive fraud-network graphs (d3), plus admin backoffices.

Full-Stack Software Engineer

ITMX

- Designed the REST architecture of a carbon-footprint platform (carbon credits / supply chain) in Django 4.1 + DRF on PostgreSQL: calculation engine, a complex relational data model across multiple modules, multi-tenant authentication with 2FA (TOTP), an OpenAPI-documented API and a reporting suite (digitally signed PDFs via WeasyPrint/pyHanko, DOCX, CSV) with aggregated CO₂ calculations.
- Stabilized and evolved a multi-currency crypto-fiat OTC exchange (BTC/ETH/USDT/USDC/EUR) and a crypto-card product inherited from another team (Node.js, Nuxt/Vue): fixed trading-endpoint vulnerabilities (IDOR, balance validation), implemented signed webhooks, 2FA/TOTP and an *autopilot* engine, and led the custody-provider migration; extracted reusable npm libraries.
- Built a serverless document-extraction platform with AI on AWS Lambda (Python) that processes PDFs/images with multi-provider LLMs (OpenAI, Anthropic, Gemini) and schema-validated JSON output, with infrastructure as code in multi-environment Terraform and CI/CD on GitHub Actions.

Full-Stack Developer

Naroca

- Developed the frontend of a public-transport ticketing platform in Angular (Material, Tailwind), with a reactive stepper-style purchase flow.
- Integrated a third-party ticketing API and a payment flow with 3D Secure.
- Implemented multi-language internationalization (ES/EU/FR/EN) and mobile-first responsive design; HTTP interceptors with JWT handling.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Backend: Django, Django REST Framework, FastAPI, NestJS, Node.js

Frontend: Angular (Signals / standalone), RxJS, Angular Material, TailwindCSS, Nuxt/Vue

Data & infrastructure: PostgreSQL, TimescaleDB, Apache Kafka, Celery, Redis · Docker, AWS (Lambda, S3, RDS, Secrets Manager), Terraform, GitHub Actions, nginx

AI/LLM, Auth & Testing: OpenAI, Anthropic, ReAct agents, MCP, Pydantic · OAuth2/OIDC, JWT, PKCE, SSRF/XSS/XXE · pytest, Jest, TDD, CI/CD

EDUCATION

Technological University of Havana "José Antonio Echeverría" (CUJAE)

BSc in Computer Engineering

2017 – 2021

Havana, Cuba

LANGUAGES

Spanish: native · **English:** advanced