

Anton Koulikov

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Skills

Python, Go, TypeScript, JavaScript | Django, Gin, Celery, RabbitMQ, React, Next.js | PostgreSQL, Redis | AWS (ECS, EC2, SQS, S3, IAM, Lambda, CloudWatch, Secrets Manager), Docker, Pulumi | Pytest, Postman, Datadog, GitHub Actions (CI/CD) | REST APIs, ETL Pipelines | Codex, Claude Code, Copilot

Work History

Software Engineer at Newton Crypto, Remote, Canada *May 2024 – January 2026*

- Promoted from intern to full-time engineer within four months. Built production backend systems in Python/Django, Go, and PostgreSQL for a regulated Canadian cryptocurrency exchange handling real-time trading, staking, and financial reporting.
- Built a Go ledger microservice consuming hundreds of transactional events per second off RabbitMQ queues from the Django monolith via an outbox pattern, implementing double-entry bookkeeping logic, reducing financial reconciliation and monthly statement generation from several days to hours.
- Refactored a Django/Celery staking rewards pipeline by introducing concurrent workers to eliminate a chronic reward backlog with zero SLA regression, then extended it to support four additional crypto assets, increasing staking adoption, revenue, and user fund retention.
- Extended Django trade execution logic to apply user-tier based spread discounts, built a supporting REST API to expose user tier, savings, and trade volume, and a cron-based tier assignment automation system, complete with Redis caching and Datadog alerting, increasing high-volume trading.
- Diagnosed and resolved a Django/PostgreSQL transaction locking bug causing trades to hang under concurrent load by adjusting row-level locking and failure handling in all trade flows, eliminating stuck transactions and reducing manual finance team intervention by hours per week.
- Built a Celery-driven Python/Django ETL pipeline in response to a third-party data breach to export, strip PII from, and re-import historical analytics data to AWS S3, then updated event instrumentation across backend services and Lambda functions (managed with Pulumi) to prevent future PII leakage.
- Optimized the Persona identity verification flow for high-volume withdrawals in Django to serve a lightweight selfie check when a user's prior full ID verification was still valid, rather than triggering a new full ID verification each time, cutting per-check costs 66%.

Projects

Capstone Project, Paper Trading Platform *September 2023 – April 2024*

- Delivered a full-stack paper trading platform from client scoping through to production launch, with a React frontend, Auth0 OAuth, Go backend, and PostgreSQL database, supporting simulated trading and portfolio tracking for 50+ assets using real-time market data.

Personal Portfolio, koulant.com *February 2026 – March 2026*

- Built and deployed a personal portfolio website using Next.js, Tailwind CSS, and Shadcn UI to Vercel, with a GitHub Actions CI/CD pipeline and a contact form powered by the Resend API.

Education

Software Development Diploma from SAIT, Alberta with 4.0/4.0 GPA *September 2022 – April 2024*

Bachelor of Science in Plant Biology from University of Calgary, Alberta *September 2017 – April 2021*