

# ANDREI MARTYENKO

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## PROFESSIONAL SUMMARY

### BACKEND ENGINEER (GO) — FINTECH SYSTEMS

Backend Engineer specialising in Go and reliability-oriented backend systems.

Combines software engineering with over 10 years of financial domain experience in regulated banking environments (AML/KYC and transaction monitoring).

Focused on building backend services where correctness, traceability, and predictable behaviour under load are critical, particularly for transaction-style processing and event-driven workflows.

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## TECHNICAL SKILLS

### Languages & Backend

Go (Golang), REST APIs, concurrent services, goroutines, channels, background workers

### Data & Storage

PostgreSQL (schema design, relational modelling, indexing)

Redis (caching strategies, TTL, cache-aside patterns)

### Infrastructure & Tools

Docker, AWS (basic exposure), Linux, Git

### Architecture & Processing

Event-driven systems

Idempotent API design

Controlled concurrency & worker pools

Retry, timeout & failure-handling strategies

Observability fundamentals

Unit testing

## EXPERIENCE

### Computer Software Solutions Ltd.

Backend Engineer (Go)

London, UK | Oct 2023 – Present

Designing and developing Go-based backend services for event-driven data processing pipelines and financial-style workflows.

- Designed and implemented REST APIs for transaction-style processing workflows
- Built event ingestion and normalization pipelines using bounded worker pools
- Implemented idempotent processing and deduplication mechanisms for reliable event handling
- Developed rules-based processing workflows with traceable decision logic

- Designed PostgreSQL schemas supporting reproducible system state
- Applied controlled concurrency patterns with explicit retry and timeout strategies
- Containerised backend services using Docker

**Tech:** Go, PostgreSQL, Redis, Docker, REST APIs

Focus: building reliability-oriented backend systems with predictable behaviour under load.

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## **JSC Sumitomo Mitsui Banking Corporation Russia**

Leading Specialist — AML & KYC

Moscow, Russia | Mar 2017 – Mar 2020

- Conducted enhanced due diligence and risk-based customer reviews under regulated AML frameworks
- Investigated transaction monitoring alerts and behavioural patterns across retail client portfolios
- Supported sanctions screening processes within regulated compliance environments
- Participated in UAT validation of AML/KYC systems, contributing to workflow improvements
- Contributed to AML/KYC control framework that successfully passed Central Bank regulatory inspections

## **PROJECTS**

### **Proof-of-Signal — Event-Driven Signal Processing Platform (Go)**

<https://github.com/AndreiMartynenko/proof-of-signal>

Designed a backend system demonstrating event-driven data processing where a Go API gateway ingests market events and integrates with a Python ML service for signal enrichment. Implemented deterministic SHA-256 hashing (“proof-of-signal”) allowing outputs to be reproduced and verified across runs.

#### **Key work:**

- Built Go (Gin) API gateway exposing REST endpoints for indicator retrieval and signal generation
- Integrated Python ML service (FastAPI) over HTTP for sentiment/hybrid enrichment while keeping model logic isolated from gateway orchestration
- Implemented deterministic SHA-256 proof hashing so outputs can be reproduced and verified across runs (audit-friendly artifact)
- Implemented background worker for continuous signal generation and latest-signal delivery.

**Tech:** Go, Python, PostgreSQL, Redis, Docker

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## EDUCATION

### **Kingston University London — London, UK**

MSc Software Engineering with Management | 2025 – 2026

### **Capital City College Group — London, UK**

Software Engineering | 2022 – 2025

- Developed academic projects using Go, JavaScript, SQL, and Docker
- Strengthened programming and software engineering fundamentals

### **Kingston University London — London, UK**

MSc Banking & Finance | 2020 – 2022

### **Plekhanov Russian University of Economics — Moscow, Russia**

Bachelor's Degree in Finance | 2013 – 2018

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## LANGUAGES

English — Professional Working Proficiency

Russian — Native

Ukrainian — Native

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## INTERESTS

Music production