

Wouter Sels

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PROFILE

Blockchain engineer with 2+ years of hands-on experience building low-latency, high-throughput trading infrastructure across EVM chains. Passionate about on-chain markets and automated trading.

PROJECTS

On-Chain Infrastructure

March 2024 – Present

DEX Trading Bot

- Took the trading bot from idea to live on-chain execution in ~2 weeks, reaching low five-figure trading volume.
- Engineered a real-time data pipeline for sequencer streams and block event logs, processing ~7 MB/s (285 GB/month) for live strategy evaluation.
- Designed an entry detection system that evaluates incoming on-chain data against trading strategies, generating ~10 actionable setups/hour.

MEV Arbitrage Bot

- Parallelized CPU-bound arbitrage calculations across 5–8 worker threads, reducing market-event-to-decision latency to <10 ms.
- Developed a gas-optimized Solidity execution contract that unified arbitrary DEX interactions behind a single interface, enabling multi-DEX arbitrage in one atomic transaction.
- Engineered an RPC failover layer with 3 rotating endpoints and automatic recovery, enabling multi-day continuous operation.

EXPERIENCE

Full-Stack Java Software Developer

February 2023 – June 2026

FOD Finance, Brussels, Belgium

- Built a Java-based balance-settling mechanism processing 20,000 executions per run, resolving settlement inefficiencies and generating €16M+ in net gains.
- Implemented automated interest calculation for a new regulatory rule, ensuring compliance and reducing reconciliation work by ~99%.
- Upgraded deployment pipeline by migrating Spring Boot version and adopting ArgoCD and OpenShift, expanding from 1 manual environment to 4 automated environments.
- Resolved race conditions and concurrency issues by introducing locking and queueing mechanisms, reducing data consistency and integrity issues by ~98%.

EDUCATION

Java Full Stack Certification

September 2022 – January 2023

Switchfully Cegeka, Brussels, Belgium

Applied Information Technology

September 2020 – September 2021

University Colleges Leuven-Limburg, Leuven, Belgium

PERSONALITY

Lifelong wonderer with an explorative spirit that is drawn to creative problem solving and continuous learning. Enjoys running, climbing and reading, among other activities.