



# Ugur Erdem Seyfi

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Eskisehir, Turkey

## Summary

**Full-stack software engineer** with a strong foundation in **mathematics** and **computer science**. Experienced in building production systems across **fintech, trading infrastructure, and web platforms**. **Technical writer** with work featured on the front pages of industry newsletters, including Hacker News, Lobste.rs, and Bytes.

## Education

**BS Bilkent University**, Mathematics (Full Scholarship)

2018 to 2023

Completed the full **Computer Science** curriculum through electives.

## Experience

**NanoSec Tech**, Software Engineer

Turkey, Istanbul

*Jul. 2025 - Now*

- Engineered **low-latency trading systems** with **optimized tick-to-trade performance**, applying `Go` best practices and leveraging observability tools such as `pprof`, `traces`, **runtime metrics**, and **structured logging**.
- Developed **high-performance, memory-efficient** exchange adapters in `Go`, using `TCP/UDP`, `WebSockets`, `FIX`, and `HTTPS`.

**Sphera Engineering**, Software Engineer, Contractor

Italy, Florence

*Dec. 2023 to Apr. 2024*

4 months

- Using `Node.js`, built both the `Fastify` **API** and the `React` **frontend** for managing designers, products, and catalogs.
- Implemented `SAML` auth as a Service Provider, with **Salesforce & Azure AD**.

**Blackwater Information Services**, Software Engineer, Contractor

Turkey, Istanbul

*Feb. 2023 to Dec. 2023*

10 months

- Built `Node.js` **adapters** for `ITCH`, `GLIMPSE`, and `OUCH` socket protocols used in high-frequency trading and market data systems.
- Passed **Borsa Istanbul (BIST) OUCH certification**, resulting in the company being listed as an official OUCH Certified Application.
- Developed an **advanced trading client** for desktop using `Electron` and `React`.

**Referencehood**, Software Developer, Contractor

Turkey, Istanbul

*Jan. 2023 to Oct. 2023*

9 months

- Migrated the **entire frontend** to `React`.
- Developed **automated withdrawal** and **sweeping system** using `BullMQ`, with failure alerting via GitHub integration.
- Built scripts for **parsing exchange reports** (Binance, OKX, Bybit) to support payback calculations.
- Fixed balance calculation issues through `PostgreSQL` migrations.
- Developed an **admin panel** to automate operational workflows.
- Assisted with **user support** through both documentation and e-mail communication.

**Metavest** [↗](#), Software Engineer

British Virgin Islands

- Developed a **DeFi** monitoring system using `NodeJS` and libraries like `ethers.js` and `web3.js`. Collected on-chain data into `MongoDB` and `Prometheus`, and visualized it through `Grafana` and `Retool` dashboards.

Oct. 2021 to Aug. 2022  
10 months

**Meteksan Defense** [↗](#), Software Engineer Intern

Turkey, Ankara

- Learned about `C++`, **socket programming**, **multi-threading**, **machine learning**, and **computer vision concepts**. Developed a multi-client server network infrastructure and created an AI program for recognizing MNIST numbers.

Jun. 2021 to Jul. 2021  
1 month

## Projects

**rugudev - Personal Blog** [↗](#)

Since 2022

Personal blog on software engineering and philosophy with **600+ upvotes** and **350+ comments** on HackerNews.

**Mark Scroll Positions** [↗](#)

2024

Browser extension to save and restore scroll positions on web pages with **250+ active users**.

**HN Domain Stats** [↗](#)

2025

Domain-specific HackerNews statistics and aggregation tool.

## Achievements

**Inzva Online Programming Contest 2022** [↗](#): **3rd** place **among 113 teams**.

**METU Annual Programming Contest 2022** [↗](#): **12th** place **among 100+ teams**.

## Technologies

<code>JavaScript</code>	Since 2014	<b>My first programming language.</b> Full-stack development with <code>React</code> , <code>Fastify</code> , and modern JS ecosystem.
<code>Go</code>	Since 2024	<b>Favorite programming language.</b> Used mostly for <b>high-performance concurrent applications</b> and <b>backend</b> services.
<code>SQL</code>	Since 2023	Extensive experience using <code>PostgreSQL</code> for complex projects and <code>SQLite</code> for simple projects.
<code>NoSQL</code>	Since 2021	<code>Redis</code> , <code>Prometheus</code> , <code>LevelDB</code> , and <code>MongoDB</code> .
<code>Linux/Unix</code>	Since 2021	<code>CentOS</code> , <code>Debian</code> and <code>Ubuntu</code> for server-management. <code>Arch</code> and <code>NixOS</code> (experimented for a year) for daily use.
<code>CI/CD</code>		Very good understanding of standard tools and practices such as <code>Git</code> , <code>Github Workflows</code> , <code>Docker</code> , <b>TDD</b> , etc.
<code>Other</code>		<code>Bash</code> , <code>Python</code> , <code>Java</code> , <code>Clojure</code> , <code>C++</code> , <code>C</code> .