Sergey Melnychuk

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Summary

Experienced and skilled software engineer, passionate about software architecture, domain-driven design, functional programming, large-scale distributed systems and machine learning, constantly pursuing self-improvement both personal and professional.

Skills

Large-Scale Distributed Systems
Data Structures and Algorithms
Problem Solving, Design Thinking

Rust, Scala, Java, C++, C, Go, Python, JavaScript
SQL, NoSQL, Cassandra, PostgreSQL, Spark, Kafka
AWS, GCP, Docker, Kubernetes, Ansible, Jenkins
Leadership, Agile, SCRUM, Lean, TDD, XP

Experience

09.2022 - Present: Eiger (Software Engineer | Contract)
Pathfinder: full node for Starknet (Rust, OpenRPC, SQLite)
https://github.com/eqlabs/pathfinder
https://github.com/sergey-melnychuk/armada

Beerus: stateless and trustless light client for Starknet (Rust, WebAssembly)
https://github.com/eigerco/beerus
https://github.com/sergey-melnychuk/iamgroot

04.2022 - 09.2022: Meta (Facebook) (Software Engineer / L5)
Service Health (C++, Python, JavaScript, React, Rust)

06.2021 - 03.2022: Starburst Data (Software Engineer)
Trino (https://github.com/trinodb/trino) (Java, Maven, GitHub)

11.2019 - 06.2021: Equinix (Staff Software Engineer)
Big Data Analytics, Internet of Things (Java, Scala, Akka, Kafka, Spark, AWS)

07.2018 - 10.2019: Google (Software Development Engineer / L4)
Autopilot: large-scale resource limits manager (C++)
https://research.google/pubs/autopilot-workload-autoscaling-at-google-scale/

SaaS-enabling platform (Go, GCP)

07.2014 - 07.2018: StrikeAd (acq. by Sizmek) (Senior Scala Developer)
RTB DSP development: high-load, big-data (Erlang, Scala, Python, AWS)
Leading a cross-functional feature-team of up to 6 software engineers.

06.2013 - 06.2014: EPAM Systems (Senior Java Developer)

09.2012 - 06.2013: EngagePoint (Java Developer)

05.2011 - 09.2012: Infopulse (Java Developer)
02.2010 - 05.2011: Infopulse (Junior Java Developer)

Education

2006 - 2012: Master's Degree, Computer Science
NTUU "Kyiv Polytechnic Institute", IASA, System Design

Certifications

Cardano Blockchain Certified Associate (Cardano Academy, 2024)
zkSync zkEVM Bootcamp [Rust, Zero-Knowledge Proofs] (Encode Club, 2024)
Polkadot Blockchain Developer Bootcamp [Substrate, Rust] (Udemy, 2023)
Architecting with Google Kubernetes Engine (Google, 2022)
Reactive Architecture [6 courses] (Lightbend, 2021)
Functional Programming with Haskell (Spetic, 2020)
Apache Cassandra 3.x Developer Associate (Datastax, 2020)
Algorithms [by Robert Sedgewick] (2 parts, Princeton/Coursera, 2018)
Deep Learning Specialization [by Andrew Ng] (Coursera, 2018)
Functional Programming in Scala Specialization (EPFL/Coursera, 2018)
Oracle Certified Professional: Java SE 6 Programmer (Oracle, 2011)

Languages

English (fluent)
Polish (fluent)
Ukrainian (native)
Spanish (beginner)

Extra

TreeMap impl based on AVL-tree
https://github.com/near/near-sdk-rs/pull/154

YAKVDB (Yet Another Key-Value DataBase)
https://github.com/sergey-melnychuk/yakvdb

My contribution to Rust :)
https://github.com/rust-lang/rust/pull/72206