

Hiring software engineer as easy as calling a taxi.

# Demchuk Nazar

## Rust Developer

### SUMMARY

Software Engineer with expertise in backend development, blockchain technology, and big data, boasting a solid foundation in computer science from Ukrainian Catholic University. Holds a strong junior/middle experience level, with hands-on Rust, C++, and a gambit of modern technologies such as Solana, Axum, and Kafka. Proven track record of developing robust solutions for cryptocurrency swapping and NFT architecture, time-series data manipulation, and digital media copyright solutions. Notable achievements include contributions to open-source projects, and winning a national programming tournament. Fluent in advanced software engineering paradigms and well-versed in real-time streaming and machine learning library development.

### SKILLS

<b>Main Technical Skills</b>	Rust (1 yr.), C/C++/C# (1 yr.), Solana, Axum, Tokio
<b>Java Libraries and Tools</b>	Apache Velocity
<b>Cloud Platforms, Services &amp; Computing</b>	AWS
<b>Operating Systems</b>	Linux
<b>Virtualization, Containers and Orchestration</b>	WebAssembly
<b>Other Technical Skills</b>	Backend, Clap, Fat-Free, KDB, Rayon, Serde

### WORK EXPERIENCE

#### Rust Blockchain Developer, AI-assistant & Index-based NFT

**Duration:** 04/2024 – current

**Summary:** Built a backend for an AI-assistant for cryptocurrency swapping on the Solana blockchain and developed the architecture for a new index-based NFT.

**Responsibilities:** Backend development, architecture design, cryptocurrency swapping AI-assistant implementation, NFT architecture research and development

**Technologies:** Rust, axum, solana-sdk, tokio, GPT-4

### **Software Engineer, Time-series Vectorized Language & Logging Tool**

**Duration:** 08/2023 – 04/2024

**Summary:** Maintained and extended a time-series vectorized language for quick data manipulation, developed a report management feature, and wrote an allocation-free logging tool for the stock market.

**Responsibilities:** Language maintenance, report management development, real-time allocation-free logging tool development

**Technologies:** Rust, rayon, KDB, backend, Allocation-free Java, Apache Velocity

### **Junior Rust/C++ Developer, Copyright Solutions & Social Media Tech-Stack**

**Duration:** 06/2023 – 09/2023

**Summary:** Worked on various copyright solutions for digital media, built tech-stack for a social media app, designed databases, and set up server and database on AWS.

**Responsibilities:** Digital media copyright solution development, social media app tech-stack build, database design and normalization, AWS server and database setup

**Technologies:** C++, OpenSSL, Rust, backend, WebAssembly, PostgreSQL

### **Contributor, textplots.rs**

**Summary:** Contributed to an open-source project for plotting graphs and diagrams on embedded devices.

**Responsibilities:** Open-source project contribution, CLI tool development

**Technologies:** Rust

### **Developer, Joker**

**Summary:** Developed a Docker alternative CLI tool, with a focus on containerization and virtual machine concepts.

**Responsibilities:** CLI tool development, containerization and virtual machine knowledge improvement, multi-component application isolation

**Technologies:** Rust, serde, clap, Linux

### **Project Lead, Axon**

**Summary:** Designed and developed a concurrent machine learning library and implemented various optimizations and tools for enhanced performance.

**Responsibilities:** Library architecture design, team leadership, optimizer development, testing, GPipe parallelization implementation

**Technologies:** C++, libeigen, TBB

## **EDUCATION**

### **• Bachelor of Science in Computer Science**

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Operating Systems, Big Data, Cryptography, Artificial Intelligence, Calculus, Discrete Math, Probability & Statistics.

Expected May 2025



## CERTIFICATION

- **Ukraine Rust Developer Bootcamp**

- **Ecosoft Tournament**

Won a Ukrainian national programming tournament with 'Best Startup idea of the year' honor.

