

TEMIRZHAN YUSSUPOV

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EXPERIENCE

Meta

September 2022 — December 2022

Software Engineering Intern, Test Infrastructure Team

London, UK

- Ported most data-intensive and critical part of the testing data processing pipeline from Hack to Rust.
- Increased reliability and availability of coverage data for all repositories in Meta by creating high-performance Rust CLI tool replacing **hundreds of millions** of async jobs a day.
- Decreased time required to get test coverage for the biggest repository in Meta **from 9 hours to 1 hour**.
- Used Rust, Tokio, Rayon, GraphQL and Cargo.

Jump Crypto LLC

May 2022 — August 2022

Software Engineering Intern, Core Trading Team

Singapore

- Created a brand new piece of infrastructure handling risk limits for **all trading strategies** running in Jump Crypto on all major exchanges.
- Contributed to feeds, gateways and strategies parts of the infrastructure through improving exchange connectivity latency and increasing test coverage.
- Interacted and contributed to the communication with all major crypto exchanges including Binance, KuCoin, FTX, etc.
- Used proprietary C++ software, Google Test Framework, GDB, Python and Jenkins.

ZKX

October 2021 — February 2022

Software Engineer

Remote

- Contributed to building perpetual futures decentralized exchange on top of Starknet.
- Involved in L1-to-L2 interactions, smart contracts development and development of the trading engine for handling incoming orders.
- Used Solidity, Cairo, Node.js and TypeScript.

Citadel Securities

May 2021 — August 2021

Software Engineering Intern, Market Data Team

Hong Kong

- Created a leaner, more testable and more robust version of market data recovery service used by **every** single trading strategy in the company.
- Achieved **100% match** of order books at any point of time, resulting in significant improvement of accuracy of trading strategies.
- Participated in development of software adapters for more than **30 exchanges** in APAC region used by traders to receive market data and submit orders.
- Used low latency C++, Google Test Framework, Bazel, Bash scripting and Python.

Ethereum Foundation

June 2020 — Current

Blockchain Developer

Remote

- Part of the Buidl Guidl curated group of Ethereum builders creating products, prototypes, and tutorials with **scaffold-eth**.
- Participated in developing projects like signature-based NFT auction, NFT minting using Merkle tree, payment channels, xNFT and more.
- Got into the Ethereum weekly newsletter for building a prototype demonstrating the usage of **Aave flash loans** to use arbitrage opportunities between Uniswap and Sushiswap.
- Using Solidity, React, The Graph, Hardhat, Ethers.js, Infura, Polygon.

PROJECTS

Bitgaming — Play-2-earn DAO

bitgaming.me

- Created a play-to-earn DAO platform allowing players to earn ERC20 tokens and exchange them to exclusive platform NFTs.
- Used both ERC20 and ERC721 standards for smart contracts development with Hardhat toolkit and ethers.js library.
- First place winner in all categories in JAS Ventures Blockchain Hackathon.
- Used Solidity, Next.js, ethers.js, Hardhat and Foundry.

N17R CTF — CTF Platform

ctf.nfactorial.live

- Created a standalone CTF platform from scratch with task submission, verification and leaderboard functionality for security competition with over **2000 participants**.
- Worked in a team of 2 participating in both front-end and back-end development in Rust.
- Used Rust, Diesel, Tokio, React.js and Docker Compose.

Laddy — Full-stack website

laddy.app

- Created from scratch an open-source web-app with more than **5000 users** that allows programmers to practice their problem-solving skills.
- Went through all stages of product iteration starting from design and ending with deployment to the remote server.
- Received **86 stars** on Github and got **140 upvotes** in r/reactjs subreddit.
- Used TypeScript, GraphQL, Node.js, nginx, React.js, PostgreSQL, TypeGraphQL.

Indigo — Telegram bot

t.me/nuhelper_bot

- Developed an open-source Telegram bot with more than **800 users** that automatically notifies students about upcoming lectures, new grades and homework.
- **Significantly** saved the time of students by decreasing the number of unnecessary website visits.
- Used Python, MongoDB, Pipenv, Telegram Bot API, BeautifulSoup and Requests library.

ACHIEVEMENTS / ACM RECOGNITIONS

- **JAS Ventures — Hackathon Blockchain Day** - 1 place, 1.000.000 KZT prize (2022)
- **ACM ICPC Semifinalist** - Top 12% in NEERC region (2021)
- **Google STEP Internship, Zurich** - Offer was cancelled due to COVID-19 (2020)
- **International Hackathon "Digital Commonwealth"** - 1 place, 250.000 KZT prize (2020)
- **National Student Hackathon "Social Hack"** - 1 place, 300.000 KZT prize (2020)
- **International Eurasian Olympiad in Informatics** - Silver medal (2018)
- **National Olympiad in Informatics (Kazakhstan)** - 2 Silver medals (2017, 2018)
- **International Zhautykov Olympiad in Informatics** - Bronze medal (2018)

PROGRAMMING SKILLS

Languages	C++, Rust, TypeScript, Go, Python
Technologies	Linux, Git, REST, Bash, React, Node.js, Docker, GraphQL
Databases	MongoDB, MySQL, PostgreSQL, Redis
Coursework	Algorithms & Data Structures, Operating Systems Networks, Computer Systems & Organization