# Ivan Frolov

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A motivated student who already has experience in Software development and designing code using Rust, C++, Python and JavaScript, as well as evaluating, and troubleshooting problems. I work with Oracle and MongoDB databases.

**Skills**

Programming Languages: Rust, Python, C, C++, JavaScript, TypeScript, SQL, HTML, CSS, WebAssembly

Frameworks and Tools: Git, Jira, Docker, REST, RPC, JSON, Rocket, Actix, Django (DRF), NGINX, VIM, OpenVPN Server, MS Office

Data Bases: Oracle, PostgreSQL, MySQL, SQLite, MongoDB

OS: MacOS, Linux, Windows

Languages: English (fluent), Ukrainian (native), Russian (native), German (basic)

**Experience**

**Open Source Contributions** 01/2020 - Present

Present GitHub Contributions, <https://github.com/frolvanya>

Developed and contributed to a wide range of projects and services, including:

• Backend services for NEAR blockchain

• Libraries to support blockchain development

• Console utilities for various purposes

• Telegram bots for monitoring, automation, and interaction

• Web services to provide online functionality

• Load testing tools for performance analysis

Additionally, I am responsible for server maintenance and service monitoring to ensure smooth operation.

**3dEYE (3deye.me),** Toronto, ON 04/2022 – 08/2022

Software Developer Intern, Remote

• Simplified the initial device configuration process to enhance user experience.

• Developed and maintained scripts for camera management, including monitoring temperature, status, and other device information.

• Gained hands-on experience with camera hardware and General-Purpose Input/Output (GPIO) operations.

• Contributed to the overall improvement of device functionality and usability.

**Projects**

**NEAR Lake Framework,** <https://github.com/frolvanya/near-lake-framework-py>

• Data streaming application for Near Protocol data stored in an AWS S3 bucket

• Asynchronous functions to list blocks and fetch streamer messages

• Utilized AWS SDK for Python (Boto3) to interact with S3

• Parsed and processed Near Protocol data and handled complex data structures

**Load Testing Tool**, <https://github.com/frolvanya/load-testing-tool>

• Load testing tool in Rust for testing websites and web services

• Provides options for concurrency, proxy usage, and error handling

• Tracked the number of spawned requests and failed requests using atomic counters for concurrency control and error reporting

• Proxy server usage, allowing the tool to send requests through proxies for testing network configurations

**Education**

BEng, Computer Engineering, Kharkiv National University of Radio Electronics, Ukraine 09/2022 – 06/2026

Ontario College Diploma, Seneca College, Computer Programming, GPA: 3.5/4.0 09/2022 – 04/2024

Q-bit, IT School, Kharkiv, Ukraine 01/2014 – 01/2022

**Other**

Volunteering: Volunteered at KiberOne School (Vienna, Austria) as a Junior Software Developer (remote) and developed a manager that works using OpenAI api, scraping facebook leads and WhatsApp webhooks for managing KiberOne IT School for 2 months (2023).

Work Permit until: 25.05.2025