Ivan Frolov
Back-end Developer

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Summary

A motivated 2nd year Computer Engineering student who has experience in Software development and designing code, as well as evaluating, and troubleshooting problems. During my education I gained experience in such languages as C++, JavaScript and Python. Moreover, I learned how to work with Oracle and MongoDB databases. I also have knowledge of working with cryptography, as I was contibuting to an open-source web3 project called Near Protocol. Seeking to use my existing skills and eagerness to learn further and implement new ideas in the development of new modern software by joining your team to expand my professional skills and gain valuable experience in the process of designing reliable software solutions.

Skills

Programming Languages	Rust ○ Python ○ C ○ C++ ○ JavaScript ○ TypeScript ○ SQL ○ HTML ○ CSS ○ WebAssembly
Frameworks and Tools	Rocket ○ Actix Web ○ Flask ○ NGINX ○ Docker ○ VIM ○ Git ○ Jira ○ OpenVPN Server ○ RPC api ○ REST api ○ JSON ○ MS Office ○ Dynamic Programming
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

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 automation and interaction
- Web services to provide online functionality
- Load testing tools for performance analysis

Additionally, 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, current 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

09/2022 – 06/2026	**BEng, Computer Engineering**, *Kharkiv National University of Radio Electronics*, Ukraine
	– Networking, C++, OOP, Databases, Operation Systems design
09/2022 – 04/2024	**Ontario College Diploma**, *Seneca College*, Computer Programming
	GPA: 3.7/4.0
	– Computational thinking, C/C++, JavaScript, WEB, OOP, Databases, Software Testing, Linux/UNIX
2014 – 2022	**Q-bit**, *IT School*, Ukraine
	– Algorithms & Data Structures, Rust, Python, C++, Ubuntu Linux

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