IVAN FROLOV

Software Developer

📞 *(416) 709-1633*
✉ *frolvanya@gmail.com*
📍 *Richmond Hill, ON, L4B 0A4*
in *linkedin.com/in/frolvanya*
○ *github.com/frolvanya*

SUMMARY

My journey to Computer Science started in the 5th grade, where I studied in an advanced math and computer science class and learned a lot about data structures and algorithms, and later dove into learning different programming languages (Rust, C++, Python) and technologies on my own. My curiosity allowed me to participate in various programming competitions, team projects, and open source contributions. I want to use my existing skills and desire to develop software.

SKILLS

Programming Languages	RUST ∘ PYTHON ∘ C ∘ C++ ∘ JAVASCRIPT
Frameworks and Tools	ROCKET ∘ ACTIX WEB ∘ FLASK ∘ NGINX ∘ DOCKER ∘ VIM ∘ GIT ∘ JIRA ∘ OPENVPN SERVER
Data Bases	ORACLE ∘ POSTGRESQL ∘ MYSQL ∘ SQLITE ∘ MONGODB
OS	MACOS ∘ LINUX
Languages	ENGLISH (FLUENT) ∘ UKRAINIAN (NATIVE) ∘ RUSSIAN (NATIVE)

EXPERIENCE

Open Source Contributions

2020 – Present

GitHub Contributions, *GitHub Profile: 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

April 1, 2022 – August 30, 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

2022 – 2026   **B. Tech in Computer Science**, *Kharkiv National University of Radio Electronics*
– COMPUTER SCIENCE, C++, OOP, DATABASES, OPERATION SYSTEMS DESIGN

2022 – 2024   **Ontario College Diploma**, *Seneca College*, Computer Science
GPA: 3.7/4.0
– COMPUTATIONAL THINKING, C/C++, JAVASCRIPT, WEB, OOP, DATABASES, LINUX/UNIX

2014 – 2022   **Q-bit**, *Ukraine*, IT School
– 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