

# IVAN ZHUKAU

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## ABOUT

- Software Engineer • Competitive Programmer
- Strong background in algorithms, data structures and optimization.
- Interests: Software Engineer, research, quant finance, algorithmic trading, HFT, financial markets

## TECHNOLOGIES

- Languages: C++17/20, Python, Go, Kotlin, SQL
- Tools & OS: Linux, Bash, Git, Docker, CMake
- CS Fundamentals: algorithms & data structures, competitive programming, networking (TCP/IP, sockets), multithreading, memory management
- Machine Learning / Data: NumPy, pandas, scikit-learn, matplotlib

## WORK EXPERIENCE & CHALLENGES

<b>Huawei iRunner Challenges</b>	<b>Dec 2022 - Nov 2025</b>
<ul style="list-style-type: none"><li>• <b>Winner of Huawei iRunner Challenges (Oct 2022, Dec 2023, Nov 2025).</b></li><li>• Solved optimization problems where ranking depended on solution quality rather than just correctness (4th, 5th and 6th places).</li><li>• <b>Stack:</b> C++, algorithms and data structures, linear algebra, performance optimization.</li></ul>	
<b>NearCrowd   AI Model Trainer</b>	<b>Dec 2022 - May 2025</b>
<ul style="list-style-type: none"><li>• Analyzed and annotated large data sets used to train AI models, ensuring a high standard of accuracy and consistency in solving competitive programming problems.</li><li>• <b>Stack:</b> C++, Algorithms and Data structures.</li></ul>	
<b>Harbour.Space   Python developer</b>	<b>Aug 2025 - Nov 2025</b>
<ul style="list-style-type: none"><li>• Built a tool to search for talented students from programming olympiads and competitions and store them in a database.</li><li>• Implemented web scraping with Scrapy, parsed public rankings and profiles, and stored structured data in MySQL.</li><li>• Designed database schema and queries to search candidates efficiently.</li><li>• <b>Stack:</b> Python (Scrapy), SQL (MySQL), Linux.</li></ul>	
<b>Algorithms and data structures Instructor</b>	<b>Sep 2023 - Feb 2025</b>
<ul style="list-style-type: none"><li>• Taught algorithms in camps and schools.</li><li>• Places: Leagues of Code, NlogN summer camp 2025, singularity.academy</li></ul>	

## EDUCATION

<b>Higher School of Economics (Moscow)</b>	<b>Sep 2024 - May 2025</b>
<ul style="list-style-type: none"><li>• <b>Degree:</b> Bachelor of the Higher School of Economics. Faculty of Computer Science. Applied mathematics and computer science. Advanced course in mathematics and programming</li><li>• <b>Coursework:</b> Calculus, Number Theory, Discrete Math, Linear algebra and geometry, Advanced C++ (OOP, threads, memory and etc), Python(in math Labs. Using NumPy, Pyplot, scipy), algorithms and data structures.</li></ul>	
<b>Harbour.Space (Spain)</b>	<b>May 2025 - May 2027</b>
<ul style="list-style-type: none"><li>• <b>Degree:</b> Bachelor of the Harbour.Space University. Faculty of Computer Science.</li><li>• <b>Coursework:</b> Mobile dev(Kotlin), Unity Game Dev(C#), COAS (C + Architecture + bash + NASM), Databases(SQL, MySQL), Linear Algebra 2, Machine learning for masters</li><li>• <b>Current GPA:</b> 3.54</li></ul>	

## Projects

- C backend api (A tiny HTTP JSON service to store and retrieve (with Docker support)) | [link](#)
- An archiver using the Huffman code (C++) | [link](#)
- Contributer of project for stress testing of solutions to sport programming problems (C++) | [link](#)

## OLYMPIAD ACTIVITIES

- Codeforces rating: 2202
- Silver medalist of the 20TH INTERNATIONAL ZHAUTYKOV OLYMPIAD
- Prize-winner of the XVII Open Olympiad of Schoolchildren on Programming, 2023/24
- Gold medalist of the EUROPEAN JUNIOR OLYMPIAD IN INFORMATICS, 19-25 SEPTEMBER 2022
- Second degree diploma of the XXIII All-Russian Open Team Programming Olympiad 2022
- The equivalents of a silver medal IATI Junior 2023 and a bronze medal IATI Senior 2024.
- Third degree diploma of the Belarusian Republican Olympiad in Informatics 2023
- and others