

# Vladimir Rachkin

<https://github.com/robozmey>

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## EDUCATION

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- **School of data analysis (Yandex)** Saint Petersburg, Russia  
*Machine learning* Sep. 2022 – Present
- **Saint Petersburg State University** Saint Petersburg, Russia  
*Bachelor of Computer Science* Sep. 2020 – Present
- **Physics and mathematics class of SFU in Lyceum 7** Krasnoyarsk, Russia  
*High School* Sep. 2018 – June 2020

## SELECTED PROJECTS

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- **Yenisey**: Base for videogame engine in development written on **C++** with **OpenGL**. Created as university assignment.
- **UnELFer**: Disassembler for RISC-V. An university assignment written in **C++**.
- **Lambda Calculus**: A program that can  $\beta$ -reduce lambda terms and check their  $\alpha\beta$ -equivalence. An university assignment written in **Haskell**.
- **Formula Normalizer**: A simple program that translates formulas into some normal forms. An university assignment written in **Haskell**.
- **Olympiad results email sender**: Tool that sends out the verified works to the participants via e-mail. A task from organizer of the ROI-regional written in **C++** with **QT**.
- **Phoenix Proof**: TLA+ specification for **Phoenix Vault** smart contract. **TLA+**
- **PaperWar**: Online web-game, with two teams fight for generator. Main feature: only one stat - power, witch uses as for regeneration as for shooting. My project written in **NodeJS**.

## EXPERIENCE

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- **Internship in Yandex** Saint-Petersburg  
*MySQL database modification* 2022
- **Internship in ABS** Krasnoyarsk  
*Addon for 1C-Accounting* 2018

## PROGRAMMING SKILLS

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- **Languages**: C, C++, Haskell, Python, JavaScript, SQL, Rust, Kotlin
- **Technologies**: OpenGL, OpenCV, OpenCL, PyTorch, 1C

## EXTRACURRICULAR ACTIVITIES

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- **Member of the organizing committee of the regional stage of the ROI**  
*Basically, scanning and sending verified works to participants. Also assistance in organizing.* Winter 2021

## ACADEMIC ACHIEVEMENTS

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- **All-Russian School Olympiad in Informatics** Russia  
*2nd degree diploma in finals. There are usually several million participants over all the stages.* 2020
- **Open Olympiad in Informatics** Moscow, Russia  
*Finalist.* 2020
- **Open Olympiad for Schoolchildren "Information Technologies"** Russia  
*Winner.* 2019
- **Kvantoriada-2017** Skolkovo, Russia  
*Finalist.* 2017

- **World Robot Conference**  
*Participant.* Beijing, China  
2015
- **Russian Robot Olympiad**  
*2nd degree diploma in finals.* Innopolis, Russia  
2015