

Mirzofirdavs Zaynidinov

Email: darling16022002@gmail.com

GitHub: [Mirzofirdavs](#)

197022 St. Petersburg, Russia

Mobile: +79990358251

Telegram: [@TheMifik](#)

EDUCATION

- Bachelor of Science in Applied Mathematics and Computer Science**

National Research ITMO University

Sep. 2020 - Jun. 2024

Relevant coursework: Java, C++, Algorithms and Data Structures, Computer Architecture, Discrete Math, Linear Algebra, Operating Systems, Web Programming, Differential Equations, Mathematical Analysis

SELECTED PROJECTS

- Projects implemented using Java**

- **Expressions Parser** – implemented the parser which can parse simple operations with variables and constants and as a result returns the expression evaluation result, added comprehensive error handling and exceptions processing
- **NMK Game** – implemented a console game like a tic-tac-toe with grid of size $n \times m$ and k stones
- **Tic-Tac-Toe Game** – developed a classic version of tic-tac-toe game
- **Deque** – developed fully functional deque based on dynamic array
- **LinkedList** – implemented doubly linked list data structure
- **FastScanner** – implemented own buffered scanner which reads data byte-by-byte

- Projects implemented using C++**

- **LRU Cache** – created simple LRU cache with pool allocator
- **Calculator with Trigonometry Functions** – created a console calculator with trigonometry functions support
- **Genome Assembly** – a program that receives a string of DNA strands at the input and uses it to build an Euler Path to get the genome
- **Pi Value Approximation using Monte-Carlo Method** – approximated calculation of the Pi value using the Monte-Carlo method
- **The Percolation Problem** – gives an estimation of the percolation problem using the Monte-Carlo method

- Projects implemented using Bash**

- **Linux-Trash** – created the simple trash like the Linux operation system trash, with methods like *rmtrash*, *untrash*, *backup*, *upback*
- **Memory Management in the Linux Operating System** - a program that conducts experiments with memory in the Linux operating system to understand how it works and how its parameters change during overloads

- Web Programming Course**

- CodeForces Clone**

- developed a web application which repeats CodeForces functionality like creating posts and adding comments and etc.
- implemented multiple CRUD applications like user and post management
- developed authorization using JWT
- **Stack:** Java, FreeMarker, Spring, AJAX, Vue.js, MariaDB

PROGRAMMING SKILLS

Languages: C++, Java, Python, JavaScript, Bash

Frameworks & Tools: Spring Boot, Vue.js, Git

IDEs: CLion, CodeBlocks, IntelliJ IDEA, PyCharm, WebStorm and others

ACHIEVEMENTS

Prize-Winner, Samara University Olympiad in Math (**3rd degree diploma** – 300+ participants)

Prize-Winner, Tajikistan National Competitive Programming Contest (**3rd degree diploma** – 1000+ participants)

3x Prize-Winner, Tajikistan Regional Programming Contest (**2nd and 3rd degree diplomas** – 100+ participants)