



# Malyutin Roman Sergeevich

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## Education

**Institution:** Bauman Moscow State Technical University (BMSTU), 4th year  
**Faculty:** Informatics, Artificial Intelligence, and Control Systems  
**Department:** Information Security 10.05.03\_02  
**Languages:** Russian (Native), English (Upper-Intermediate)

## Programming languages

### – Python

Around 5 years of active programming experience. Worked with requests, parsing, and monitoring web pages, bypassing bot and parser protections (cookie substitution, headers modification, solving JS scripts on pages); developed CLI applications.

`requests` `sqlalchemy` `beautifulsoup4` `pandas` `websocket`  
`threading` `json` `selenium`

### – JavaScript

1-2 years of learning and usage. Developed backend APIs, a dashboard with Discord-based authorization (OAuth2), subscription payment systems without individual entrepreneurship (IP), browser extensions for automating and expediting various processes.

`express`

### – C & C++

3 semesters at university + attended an intensive course at "School 21" by Sber in July 2023.

### – Additionally

Familiarity with various data structures and implementation methods, knowledge of web vulnerabilities, their detection, and mitigation. Basic understanding of SQL database operations. Experience with the Linux terminal. Proficient in Git..

`data structures` `algorithms` `web vulnerabilities` `SQL` `linux`  
`bash` `git` `REST API` `websockets` `postgresql`

## Practice

### Python CLI bot

The developed application automatically generates responses based on the analysis of previous messages obtained from a specific channel on a Discord server. These responses reward server participants with experience and enable them to increase their activity level. Upon reaching a certain level, participants are granted early access to specific purchases.

The program is also capable of automatically adding accounts from a precompiled list to the Discord server, performing designated actions such as button clicks and reactions, and sending prescribed messages to corresponding channels. By achieving a certain number of referral accounts, users can also gain the opportunity for early access to specific purchases.

Most of the mentioned actions are performed through requests, except in cases where this could lead to blocking. As a result of selling 18 copies of the program, a profit of approximately 200,000 rubles was achieved.

<https://github.com/TheRealMal/TheRealMalAIO/>

### Browser extension

An extension for automating and expediting the sneaker purchasing process on specific websites. Among its features, it offers the ability to create and use various profiles, notifications of successful purchases through Discord, reduction in the number of purchase requests, and elimination of the need to load pages, as well as bypassing bot protection.

<https://github.com/TheRealMal/ExtensionTRM>

### Term project

Development of a system for searching and managing books in a library. Implemented as a web application. The search was conducted using the Rabin-Karp algorithm/method (substring search using hashing).

<https://github.com/TheRealMal/LibrarySystem>

### Internship after the 3rd year, "Active-Soft" JSC

Development of tools for managing data in Sonatype Nexus raw repositories.

<https://github.com/TheRealMal/nexus-manager>

### Telegram bot

A bot for a service that purchases various products from international websites. It provides a user-friendly system for customers, allowing them to change currency rates, receive order notifications, manage orders, and interact with customers through the bot.

<https://t.me/GlitchPayBot>

### **Discord server, developer-administrator**

The theme of the server is related to the resale of limited-edition sneakers.

As part of my activities, I developed software that efficiently tracks the release of new sneaker models or the availability of additional sizes for existing products on websites (achieving the top spot among competitors in terms of speed). A notable achievement was the creation and realization of a program idea for rapid checking of the availability of specific items in Adidas stores. This tool allowed checking the availability of rare pairs of sneakers throughout Russia in a matter of seconds, enabling their resale at a profit margin of 2-3 times the regular price.

Furthermore, I managed to gain access to the internal databases of stores and preemptive information about upcoming releases. To simplify the subscription payment process, a straightforward control panel was developed with Discord-based authorization. This allowed users to easily pay for their monthly subscription using payment forms from YooMoney. Additionally, I developed a WSS API for an internal bot, which handled authorization, concealed operational algorithms, and automatically disseminated information to all users.

### **Reverse engineering**

Decompilation and deobfuscation of applications and JavaScript extensions, which, upon replacing a few lines of code, grant full access to the program's functionality.