

# UROŠ MIJAJLOVIĆ

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## EDUCATION

**University of Belgrade School of Electrical Engineering**

Degree in Software Engineering

2021 - now

## EXPERIENCE

**Microsoft | Accomplishments for 1st November - 1st December (Internship still in progress)**

*Software Engineer Intern*

November 2022 - March 2023

- By self-initiative developed a tool for optimized investigating of unexpected Core CPU Scheduler behavior and a Core CPU Scheduler simulator that was used to find edge cases for optimization purposes
- Black box reverse engineered the entire CPU Core Scheduler behavior
- Developed and implemented algorithm for optimization of CPU usage on Core Scheduler that made it up to 30% more efficient

### Notable Experience

- Found exploits in 7 different online video game competitions (including Samsung), enabling exploiter to win all the grand real-world prizes
- Found 0-Day vulnerability on Moodle platform of AMRES, enabling access to hidden test cases, as well as solutions to said test cases.
- Found an exploit on the state level of "Dabar" competition that made it possible to view all questions 24 hours before the competition began.

## SKILLS

Python:	Automation, Django, Video Generation, Image Recognition, Flask
Cyber Security:	Malware Analysis, Python Scripting, Reverse Engineering
Photoshop:	Image Manipulation, Product Design
C#:	Unity Game Development, Web Servers
Android Development::	Java
Web/Mobile Development::	HTML/CSS, React, React Native
C/C++:	Competitive Programming
Cloud platforms:	Azure
Containerization Tools:	Docker, ContainerD
Virtualization:	Hyper-V

## PROJECTS

**TikTokBot** *Python, FFmpeg*

<https://www.tiktok.com/@reddit.it>

App that filters most popular Reddit posts, scrapes them, then synthesizes the voice for the said post, and generates images that correspond to the current part of the voiceover, combines all of that into a video that it posts to TikTok.

**TikeBot** *Python, Selenium*

App for automatic online instant checkout, as soon as the wanted product is in stock on websites tike.rs and buzzsneakers.com

**TikeMonitor** *Python, Flask, Discord API*

Scraper for websites tike and buzzsneakers, that through both e-mail, it's own website, and discord bot notified the user of changes in both instore and online stock of a certain product, with a feature of replying back to the email, which would auto checkout the wanted item.

**TikeRaffleBot** *Python, Burp, Fiddler*

App that using an exploit in the raffle system of tike and buzz, increased chances of winning a raffle by 1000x

**Marble Racer Live** *Python*

Programs reads live feed of donations and comments, downloads usernames and profile photos of chosen viewers, edits map data of algodoo to put their images inside, and simulates a marble race for viewers with their profile pictures on TikTok.