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RAZVAN-MIHAI HANGHICEL

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EDUCATION

Bucharest **Faculty of Mathematics and Computer Science, University of Bucharest** **October 2021 - June 2024**

- Bachelor in Science - Computer Science
- Undergraduate Coursework: Differential and Integral Calculus; Object-Oriented Programming, Databases; Algebra; Algorithms; Computer Architecture; Artificial Intelligence; Computer Networks

EMPLOYMENT

Junior Security Researcher - Intern **Bitdefender** **August 2022 – October 2022**

- Perform analysis and/or reverse engineering of suspect source code.
- Develop tools and additional resources to improve the team's vulnerability research and reverse engineering efforts.
- Investigate malware, analyse and understand their capabilities, document the incidents of compromise (IOCs), and understand the best steps for mitigation of the threat.
- Technologies used: **Nmap, Burp Suite, Metasploit, Wireshark, Mimikatz.**

PROJECTS

- **Brain Anomaly Detection (2023)** - [GitHub](#): this project involves developing a **CNN** using PyTorch to classify CT scans of the brain in two categories - normal brains and anomaly brains. The main goal is to create an accurate model that can identify abnormalities in the brain from a CT scan
- **Kubernetes Attack Detection (2022)** - [GitHub](#):
 - created a system using **Python** which extracts logs from a kubernetes cluster and detects the following attack techniques: container administration command abuse, container deployment, internal image implanting;
 - this can be a solution to detect in a timely manner if an attack on a cluster takes place.
- **Sudoku Solver (2022)** - [GitHub](#): an app made using **Assembly** which can solve any sudoku configuration.
- **RISC-V Executor (2021)** - [GitHub](#): a **Python** script that emulates the most common 32-bit RISC-V instructions and displays in console "pass" or "fail" depending on the result of the tests.
- **PieseDez.ro (2020)** - [Website](#): a car parts website where one can buy a wide range of parts depending on the brand, price, description, and location.
- **Password Generator (2020)** - [GitHub](#): a password generator app made using **Flutter** and **Dart** that allows users to generate strong, unique passwords with customizable length and it also securely stores them in Firebase after using some hashing algorithms.

ADDITIONAL EXPERIENCE AND AWARDS

- **Ranked 9th out of over 100 teams** at the **2021 Romanian Collegiate Programming Contest**, the most prestigious Competitive Programming contest in Romania, as part of team SiPlasPlas
- Participation in the **Kickstart** and **HashCode Google's Coding Competitions**
- Participation in the **Reply Cyber Security Challenge** and **ADDA CTF**
- Participation in the **Challenge Accepted CODVidHack (May 2020)**: Developed an application that uses **Machine Learning** to predict if you have COVID-19 based on your symptoms

Technical Skills

- **Languages:** C++, Java, Python, SQL, JavaScript, Assembly, PHP, Dart
- **Concepts:** Data Structures, Algorithms, Object Oriented Programming, Ethical Hacking
- **Foreign Languages:** Romanian (Native), English (Full professional proficiency)