
EDUCATION

- TU Delft BSc Computer Science and Engineering; Sept 2025 - Present
- Tudor Vianu National High School of Computer Science, Bucharest, Romania; 2021 - 2025; GPA 9.85/10

WORK EXPERIENCE

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| Hardware Security Intern | Electron, Romania | April 2025 - August 2025 |
| • Security testing of embedded/IoT devices, reverse engineering , and forensics ; Firmware extraction & analysis ; Network traffic capture & analysis ; Attack simulation . | | |
| Research Assistant | UPB, ACS | October 2023 - June 2024 |
| • Researched the optimal design of Quantum Key Distribution networks , Quantum Computing Laboratory. | | |
| Research Assistant | UPB, ACS | June 2023 - January 2024 |
| • Implemented a tool based on Natural Language Processing as support for analysis of the polyphonic model ; | | |
| • Published a paper in International Journal of User-System Interaction 16(1), 2023, pp. 11–24: Analysis of Polyphonic Interanimation in Novels, a Support for Understanding Beyond ChatGPT Answers . Authors: Stefan Trausan-Matu, Alexandru Hossu. | | |
| Research Assistant | IFIN-HH - ATLAS Experiment, CERN | April 2023 - May 2024 |
| • Developed a jet tagging application using Computer Vision and ML techniques based on deep convolutional neural networks architecture. | | |

PROJECTS

- **llm-decompile-cleaner**, June 2025
 - LLM-powered cleaner for **Ghidra/IDA/Binary Ninja decompiled C** to improve pseudo-code read-ability after decompilation.
 - Stack: **Python**, LLM prompting, parsing.

EXTRACURRICULAR ACTIVITIES

- Founder and Director of High School **Artificial Intelligence Club**, Sept 2023 – June 2025.
- Founder and Director of High School **Cybersecurity Club**, Sept 2024 – Present.
- Founder & developer of **vianuhack.club**; built club CTF platform and created beginner-focused CTF challenges.
- Founder of "vianu_hack" CTF team - ranked 3 on CTFtime, national leaderboard.
- **Artificial Intelligence Course, Stanford Pre-Collegiate Summer Institute**, 2024
- **Data Science and Machine Learning Course, Columbia University**, 2024

AWARDS AND CONTESTS

- Qualified for DefCamp CTF Final Stage, 2025.
- 2nd place, UNbreakable Cybersecurity Teams Competition, 2025.
- 1st place, Hardware Hacking Electron Cybersecurity Teams Competition, 2025.
- Member of National Team at the Cybersecurity National Olympiad; 14th place at National Stage, 2024; 13th place at National Stage, 2025.
- 9th place National, Applied Informatics Olympiad (Software Interoperability), 2023.
- FIRST Championship, Houston, World Championship, FTC (Franklin Division), 2022.
- Gold Medal and Think Award, FTC Robotic Competitions, Jamaica National Championship, 2022.

SKILLS

- **Programming**: C; C++; Python (DS, ML, networking); Java; Rust; **Assembly (AT&T syntax)**; Bash; JavaScript.
- **Reverse engineering & exploitation**: Binary Analysis; Malware Analysis; Android RE; Windows; Linux.
- **Hardware & embedded security**: firmware extraction & analysis; reverse engineering; device forensics; boot-loader unlocking; PCB tracing; flash dumps.
- **Android (security & low-level)**: Rooting & Bootloader Unlocking; ADB & Fastboot; Magisk; NDK; Frida.
- **Web security**: Authentication/session testing; Vulnerability discovery; Attack simulation.