Maletici Miroslav

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 miroslav43

Education

University Politehnica of Timisoara   *Sept 2022 – June 2026*
Bachelor of Computer Science and Engineering

- **Coursework:** Computer Programming and Programming Languages ,Object-Oriented Programming, Data Structures, Design and Analysis of Algorithms, Operating Systems, Parallel and Distributed Algorithms, Communication Protocols

Experience

Junior Security Researcher   *Timisoara, Romania*
Bitdefender SRL   *July 2024 – Ian 2025*

- Developed an **AI-based model** to reduce **false positives in malware detection**, achieving a **97% success rate** by analyzing **contextual cues** from suspicious messages and **SMS link metadata**.
- Built a **cloud-based summarization component** for **Google Play** reviews and app descriptions, leveraging an **LLaMA-based approach** to generate concise summaries and compute **sentiment scores** for data-driven decision-making.

Software Engineer Intern   *Timisoara, Romania*
Nokia Networks   *June 2023 - July 2024*

- Contributed to the **MCTRL team (BTS processor)** by resolving **Problem Reports (PRs)** and implementing new features using **C++**, with **Python** for testing.
- Conducted **Docker** and **Kubernetes** labs for the **Liga AC Labs** project, teaching students containerization and orchestration best practices.

Teacher   *Timisoara, Romania*
Algorithmics Global   *June 2024 - Present*

- Teaching **Visual Programming** and **Python** at **Algorithmics**, an international school offering coding courses for students.

Projects

HCL Summarization   *PMT GPT* ↗

- Developed **PMT GPT**, an AI-based platform to summarize County Council Resolutions (HCL) from Timișoara, winning the **Digital Administration Award**.
- Currently collaborating with the **Timișoara City Hall IT team** to integrate the platform into the official city website, enhancing public access to legislative information.

Server Cluster Simulation   *server-cluster* ↗

- Developed a **server cluster simulation** with a job dispatcher distributing tasks to worker servers, utilizing **MPI** for efficient parallel processing across multiple machines.
- Implemented parallel algorithms for **prime number calculations**, anagram generation, and matrix operations, achieving significant performance improvements.

Nodule Detector on Lung CT Scans   *InteliMed.AI* ↗

- Developed an AI-based **learning platform** to assist **medical students** in detecting cancerous nodules on **CT(Computed Tomograph) scans**, providing interactive feedback to improve diagnostic skills.
- The application, built using **Python (AI)**, **React and Node.js (Web)**, and **MongoDB (Database)**, allows students to select suspected nodule regions, receive **real-time feedback**, and suggests similar cases for reinforcement through **repetition-based learning**.

Honours and Awards

Major League Hacking - Unihack Digital Administration Prize *15/11/2024*
- Started collaboration with the **Timișoara Town Hall IT team** for implementing the **PMT GPT** project to enhance public access to council resolutions.

InoHub UPT - UPT Innovation Fellows 2024 *10/12/2024*
- Received a **Special Award for Best Business Idea and Implementation** in **2024** for developing e-learning platforms: *wiselearning.ro* and *wiselearningacademy.com*, offering **computer science courses** and **private tutoring**.

Prize "Prof. Georg Konig" *25/05/2022*
- Awarded for outstanding results in **physics**.

Courses

AI − Hunting malware the smart way Feb 2024 - June 2024
Bitdefender
- Data exploration,Machine Learning, Neural Networks, Deep Learning, Text processing and Image recognition, Anomaly detection, Genetic Algorithms

Software activities in Nokia Technology Center for Mobile Networks March 2023 - July 2023
Nokia Networks
- C# OOP, Linux scripting & Git, PyTest scenario testing, GMock/GTest module tests, Modern C++11, System Engineering & Architecture, Cloud & Kubernetes.

Defending & Security in C++ Oct 2023
Synopsys Software Integrity Group
- Secure Coding, Static & Dynamic Analysis(Coverity, Clang Analyzer), Memory Safety(Smart Pointers), Vulnerability Mitigation(Buffer Overflow), Secure Libraries(Boost,STL)

Volunteering

LigaAC - Technical Department Volunteer *26/09/2022 – Current*
- Developing and maintaining university websites for Politehnica University of Timisoara.

Coordinator - Funding Projects Writing Working Group *2023, Timisoara*
- Leading a team of 20 students to write funding proposals for LigaAC events and initiatives.
- Teaching and collaborating on various funding strategies to secure financial support.

Volunteer Coordinator - Timisoara European Capital of Culture *2023, Timisoara*
- Managed a team of 20 volunteers during the opening of the event in the city center of Timisoara.

Volunteer Coordinator - Flight Festival 2023 *2023, Timisoara*
- Led a team of 10 volunteers to facilitate artist entry via vehicular access gate.

Technologies

Languages: C++, C, Java, Python , C#, SQL

Language Skills

Languages: Romanian (Native), **English** (C1), **Serbian** (C1 Listening/Speaking, B2 Reading/Writing)