

TUDOR-CRISTIAN SÎNGEREAN



CONTACTS

- +40755803351
- tudor.singerean@yahoo.com
- linkedin.com/in/tudor-cristian-singerean
- github.com/s1ng3

ABOUT ME

As an energetic and ambitious student. I am excited to pursue a degree and develop my career path as I begin my journey into software engineering.

My excitement for technology and professional growth has allowed me to continually seek challenges and opportunities for growth.

Throughout my studies, I have shown that I can deal with complex projects whilst developing creative solutions with specified programming language and tools.

As I get ready to enter the professional world, I am prepared to engage with innovative projects and work with professionals.

EDUCATION

Technical University of Cluj-Napoca

Cybersecurity Engineering |
Master of Science - MS
2025 – 2027

Technical University of Cluj-Napoca

Automation & Computer Science |
Bachelor of Engineering - BE
2021 – 2025

EXPERIENCE

NTT DATA

Infrastructure & Platform Services
Cluj-Napoca
Dec 2024 - Sep 2025

NTT Data allowed me to develop and learn the core skills I needed to build my knowledge base on IT Infrastructure. I became proficient using Linux command-line tools to navigate the file system to manage processes and automate basic operations.

I also gained hands on experience with databases writing SQL queries, altering and creating tables, and understanding how data is stored and pulled. By this time I had also learned the basics of network design, including configuring routers and switches, creating VLANs, and concepts about how firewalls work.

Bitdefender

Junior Software Engineer Intern
Cluj-Napoca
Jul 2024 - Sep 2024

As an intern at Bitdefender, I took part in extending the internal C/C++ and Python framework in order to develop behavioral monitoring capabilities to detect and defend against unknown malware.

I implemented the ability to extract metadata from a running process given a particular list of file paths, and developed unit and integration tests as needed for the corresponding software using a test-driven development process.

Additionally, I investigated stack usage and memory management - eventually improving performance - and engaged with senior engineers to further develop my understanding of multithreading, Windows kernel architecture, and API management.

SKILLS

- Advanced knowledge in: C/C++/Java
- Basic knowledge in: C#/Python/Linux
- Web Design & OOP
- HTML/CSS & Databases (MySQL/MongoDB)
- Understanding of Arduino Uno & Raspberry Pi platforms
- Basic knowledge in Communication Protocols (SPI/UART/I²C/CAN)
- Git & Maven manipulation

LANGUAGES

- Romanian  Native
- English  Intermediate
- French  Elementary

Certifications

• ECDL

Achieved in March 2021

Digital competence in IT knowledge certification program, internationally recognized in over 100 countries.

• LANGUAGE CERTIFICATE (B2)

Achieved in March 2021

• DRIVERS LICENSE (B)

Achieved in August 2021

Volunteering

YouthHive, Cluj-Napoca, Cluj

Oct 2018 – Jan 2020

- During my participation as a member of YouthHive, I developed my communication skills and gained experience in collaborating with different teams on specific projects.

- Working closely with my team, I successfully worked on numerous innovative social projects, leaving a positive impact on our community.

- Through this experience, I developed an understanding of project management and leadership.

Untold, Cluj-Napoca, Cluj

August 2019-2021-2022-2023-2024

- I gained experience in manipulating objects and logistics and also developed my social skills through interactions with prominent artists as a reporter.

- I succeeded as a team leader by completing tasks efficiently, contributing to the well-organized execution of the festival.

PERSONAL PROJECTS

- I have built a full stock portfolio management application in Java (with Lombok), featuring a safe user authentication process, integration with data via APIs for live stock monitoring, an easy to use user interface, portfolio tracking and performance analysis tools, and usability performance for monitoring of stock portfolios.

May 2023

- I've implemented a simplified air traffic control system in C++, providing users with the capability to effortlessly add and manage airplanes. The system includes features for real-time monitoring, route planning, and status updates for each aircraft.

May 2023

- I developed a web application using XAMPP, coupled with basic SQL knowledge in order to simulate a user-friendly interface dedicated to the sale of shoes.

Jun. 2023

- I've created a sound detection sensor system using Arduino Uno architecture that triggers mechanical motion by actuating thread. The system enables responsive and dynamic interactions based on environmental sound. The implementation includes control mechanisms to regulate the thread motion, allowing for diverse applications such as responsive environments.

Jan. 2023

- I've manufactured an alcohol measuring device with Arduino Uno and MQ-3 Alcohol Sensor module. This device utilizes a sensor to accurately measure alcohol levels and provides response.

Nov. 2022

- I created a ticket generator application in C for various transport modes like cars, planes, and boats. It's user-friendly, allowing easy ticket customization with details such as passenger info and travel specifics. The application is efficient, secure, and adaptable, making it suitable for different transportation ticketing requirements.

Oct. 2022

- I created a Rocket Game for Windows using C# and Unity, providing an exciting gaming experience with impressive graphics. I've used the C# and the game development environment of Unity to ensure a visually dynamic experience.

Nov. 2021

AWARDS & DISTINCTIONS

Honorable mention for outstanding academic achievement

Achieved in 2021

Diploma of participation in the local stage of the Mathematics Olympiad

Achieved in 2019

Diploma of participation in the local stage of the Computer Science Olympiad

Achieved in 2019

Diploma of participation in the local stage of the Computer Science Olympiad

Achieved in 2018

Bronze medal in mathematics obtained

at the national stage of the National Education Evaluation

Achieved in 2015