



Szöke-Manea Alexandru

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EDUCATION

University of Vienna

Master's in Computer Science with a focus on Data Science

Vienna, Austria

Mar. 2024 – Present

Faculty of Automation and Computer Science

Bachelor in Automation and Applied Informatics

Cluj-Napoca, Romania

Oct. 2019 – Jul. 2023

Lyceum of Informatics „Tiberiu Popoviciu”

Mathematics and Informatics Specialization

Cluj-Napoca, Romania

Sep. 2015 – Jul. 2019

EXPERIENCE

Software System Test Engineer

Bosch Romania

Mar. 2023 – Mar. 2024

Cluj-Napoca, Romania

- Conducted rigorous validation of Electronic Control Units (ECUs) for electric vehicles within the HCP1 project, ensuring system accuracy and reliability.
- Utilized a suite of diagnostic tools including INCA, DiagRA, and CANoe for ECU flashing and simulation, reinforcing robust communication within vehicle networks and executed a variety of tests through ECU-Test.
- Collaborated with international teams from Austria, Germany, and India to synchronize testing efforts.
- Troubleshoot test environments and addressed failures, ensuring that all tests ran smoothly, and system standards were met.
- Documented test results, providing clear reports for further analysis and action.

Embedded Software Engineer Intern

BeamLogic

Dec. 2022 – Mar. 2023

Cluj-Napoca, Romania

- Contributed to developing a serial communication management program using C++, integrating Boost.Asio for efficient asynchronous data handling and device interaction.
- Managed serial data packet serialization and parsing, ensuring accurate serialization, transmission and parsing of data.
- Implemented Command and Visitor design patterns to create a scalable and maintainable codebase.

Web Developer Intern

Extramur

Jul. 2022 – Oct. 2022

Terranova Da Sibari, Calabria, Italy

- Enhanced website usability and aesthetics for Negombo's booking platform by upgrading front-end features using HTML, CSS, and JavaScript, and contributed to back-end functionalities with PHP and Laravel.
- Implemented a bilingual toggle feature, improving website accessibility for English and Italian speakers.
- Awarded a Certificate of Completion in recognition for the contributions. It can be found [here](#).

Backend Developer

Softex

Sep. 2021 – Dec. 2021

Cluj-Napoca, Romania

- Collaborated on automating insurance policy generation for a Maltese company, enhancing efficiency.
- Used regular expressions to ensure the accurate validation of various European phone number formats.
- Improved problem-solving abilities and self-sufficiency in a challenging environment with minimal supervision.

TECHNICAL SKILLS AND SPOKEN LANGUAGES

Languages: Java, Python, C++, JavaScript, HTML/CSS

Frameworks: React, Next.js, Tailwind

Automotive Tools: INCA, ECU-TEST, CANoe, DiagRA

Spoken Languages: Romanian(Native), English(Fluent - B2)

PROTFOLIO

Discover more about my projects and professional journey by visiting my online portfolio [here](#).