



# Szöke-Manea Alexandru

Vienna, Austria  
[alexmanea2201@gmail.com](mailto:alexmanea2201@gmail.com)  
[linkedin.com/in/alex](https://linkedin.com/in/alex)  
[github.com/alex](https://github.com/alex)

## EDUCATION

### University of Vienna

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

### Faculty of Automation and Computer Science

*Bachelor in Automation and Applied Informatics*

Vienna, Austria

Mar. 2024 – Present

Cluj-Napoca, Romania

Oct. 2019 – Jul. 2023

## 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.
- 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.

### Web Developer Intern

*Extramus*

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](#).

## PROJECTS

### Genius | *Typescript, Next.js, Stripe, Prisma, MySQL*

2023

- Developed an AI chat application featuring diverse functionalities like image and code generation.
- Utilized TypeScript, Next.js, Prisma, and Clerk for the application architecture.
- Integrated Stripe for a premium tier access, complemented by Crisp for customer support.

### Airwise | *React, HTML, CSS, Tequila API*

May 2023 – July 2023

- Developed Airwise, a web application leveraging React.js and Kiwi.com's Tequila API for real-time flight search.
- Integrated search features to showcase the most economical flight options.
- Streamlined the booking process by directing users to a dedicated booking page for chosen destinations (note: enabling pop-ups is required for full functionality).

## 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](#).