

# Andrei-Alexandru Amzu

RO Citizen | andreiamzu@yahoo.com | +40773720539 | LinkedIn: [Amzu Andrei-Alexandru](#) | GitHub: [AlsoKnownAs-Ax](#)

## EXPERIENCE

### AQI Travel

Maastricht, Netherlands

Full Stack Developer Intern

Nov 2024 – Present

- Developed a **B2B dashboard** using **Svelte**, **SvelteKit** for the front-end, and **Python** for the back-end, enabling businesses to manage settings, revenue, and analytics, **improving operational efficiency by 30%**.
- Implemented **JWT-based authentication** and email verification, reducing unauthorized access and improving account security.
- Built an **email-based approval system**, enabling admins to approve or reject businesses directly from an email. Rejections redirect to a secure URL for providing a reason, simplifying the review process and improving decision turnaround time by **40%**.
- Designed and integrated **real-time analytics, wallet tracking, and reward management**, increasing financial transparency and user engagement by **40%**.

### Volunteer / Freelancer

Constanta, Romania

FiveM Script Developer

May 2022 – Sep 2024

- Developed complex systems for FiveM servers using **Lua 5.1**, integrating custom gameplay features and **optimizing server-side** logic, resulting in a **20-30%** reduction in server resource consumption for over **100** online players.
- Built responsive front-end and back-end UI components using **HTML**, **CSS**, **SCSS**, **JavaScript**, and frameworks like **Vue.js** and **jQuery**.
- Implemented **SQL statements** and caching methods to optimize server-side operations, decreasing the need for querying executions by **50%**.
- Developed **Anti-dump and security checks** to protect servers against various cheats, significantly improving server stability and my understanding of security's importance.
- Learned to **read and navigate extensive documentation** and gained an appreciation for the value of **well-written documentation** to streamline development and troubleshooting.

## PROJECTS

### Movie Trailer Streaming Website

Maastricht, Netherlands

Developer

Jan 2024 – Feb 2024

- Built a **movie trailer streaming platform** utilizing the **IMDB API** to dynamically fetch real-time data on the latest movie releases.
- Developed the project using **Next.js**, **TypeScript**, and **Tailwind CSS**, resulting in a **highly responsive** and **visually engaging** user experience.
- Deployed the website for **live preview**, making it accessible to users online, highlighting full deployment and **production-level experience**.

### GPS Navigation Application

Maastricht, Netherlands

Team Member

Jan 2024 – June 2024

- Worked collaboratively with a team of 6 to design and develop a faculty-led GPS navigation application using **Java** and **Maven**.
- Implemented the **A\*** pathfinding algorithm to enable efficient route planning for **walking, biking, and driving** modes.
- Contributed to a real-world application, demonstrating advanced problem-solving and **algorithm implementation skills** in a team environment.

### Knapsack Solver with DLX Algorithm

Maastricht, Netherlands

Team Member

Sep 2023 – Dec 2023

- Participated in a faculty-led project to build a **Knapsack Solver** utilizing the **Dancing Links (DLX) algorithm**.
- Implemented an efficient solution for arranging various **pentominoes** to fit within a given container, optimizing the **value-space ratio** for maximum efficiency.
- Designed the algorithm to find optimal configurations and placement strategies, demonstrating strong **problem-solving** skills and advanced **algorithmic design**.

For a complete list of my projects, visit my [GitHub portfolio](#).

## ACTIVITIES AND LEADERSHIP

---

**Maastricht's Faculty of Science and Engineering**  
*Mentor for first-year students*

**Maastricht, Netherlands**  
*Sep 2024 – Current*

## SKILLS

---

**Programming:** Java, Python, JavaScript, TypeScript, HTML/CSS, SCSS, SQL, C#, Lua 5.1

**Tools & Frameworks:** Git, Tailwind, Maven, Next.js, jQuery, FastAPI, Pydantic, Svelte, SvelteKit, Vue, React, Node, SQLite, hey-API, Zod, NPM, UV Python

**Technologies & Concepts:** A\* Pathfinding, DLX Algorithm, Front-end & Back-end Development, API Integration, Security Checks, UI Design, Documentation

## EDUCATION

---

**Maastricht University**

**Maastricht, Netherlands**

*B.S. in Computer Science*

- **Concentrations:** Software Engineering, Web Development (Front-end and Back-end)
- **Related Coursework:** Data Structures & Algorithms, Algorithmic Design, Computer Networks, Intelligent User Interfaces, AI & Machine Learning, Databases, Artificial Intelligence, Object-Oriented Programming & Modelling, Statistics & Calculus, Principles of Programming languages, Computer Security, Parallel Programming, Embedded Programming