

# Andrei-Alexandru Amzu

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## EXPERIENCE

### AQI Travel

Maastricht, Netherlands

Full Stack Developer Intern

Nov 2024 – Present

- Developed a **B2B dashboard** using **Svelte and SvelteKit (frontend)** and **Python (backend)**, enabling businesses to efficiently manage settings, revenue, and analytics, significantly enhancing operational efficiency.
- Ensured robust **authentication** and **security** with a streamlined **login/registration workflow**, integrating backend authentication using **Python** and frontend validation using **Zod**.
- Built a **subscription-based permission system** integrated seamlessly with **backend** APIs and frontend interfaces, ensuring **secure** access management.
- Created an **admin approval system**, including automated **email notifications** upon account setup completion, accelerating user onboarding and approval times.
- Designed and developed features such as **real-time analytics**, **revenue tracking**, and **reward management**, which increased financial transparency and enhanced user engagement.

### 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

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

Maastricht, Netherlands  
Sep 2024 – Current

## SKILLS

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**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, SQLAlchemy, Stripe

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

## EDUCATION

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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