Gulica Silvian
https://www.linkedin.com/in/silviangulica/
Email : gulica.sv@gmail.com
Mobile : +40-728-705-483

Education

- **"Alexandru Ioan Cuza" University of Iași** — Iași, RO
  Bachelor of Computer Science — *Oct. 2021 – Jul. 2024*

Experience

- **Prima Finanțare** — Ungheni, MD
  Web Technician — *Aug 2022 - Present*
  - **Wordpress**: Used Wordpress to create and maintain the presentation site for the company.
  - **Vesta CP**: Used VestaCP to manage the site hosting. Created and managed the internal mail system.
- **Prima Finanțare** — Iași, RO
  Web Technician — *Nov. 2023 - May. 2024*
  - **Wordpress**: Used Wordpress to adapt and maintain the presentation site for the romanian market.
  - **Vesta CP**: Used VestaCP to manage the site hosting. Created and managed the internal mail system.

Projects

- **Romanian Traffic Tutor**: Developed an *interactive web application* aimed at educating users about traffic regulations and signs, incorporating quizzes to facilitate learning.
  - **Techonogies**: Node.js, Javascript/HTML/CSS(no framework), MongoDB
  - **Source code**: The source code can be found here.
- **Real Estate Listing Platform**: Collaborated in a team of 5 to develop a real estate app, integrating *Clean Architecture* and *Domain-Driven Design* methodologies to ensure a scalable application infrastructure. Made use of *ML.NET* for advanced property price prediction, enhancing the app's functionality. Achieved *second place* in a competition hosted by Centric during an introduction to .NET course.
  - **Techonogies**: .NET Platform, PostgreSQL, Firebase Storage, Google Maps API, SendGrid, Currency Converter
  - **Source code**: The source code can be found here.
- **University Timetable Course Problem**:
  - **Objective**: Developed an AI-based solution to the University Course Timetabling Problem (UCTP), focusing on optimizing resource allocation under constraints imposed by both students and teachers.
  - **Approach**: Implemented and fine-tuned local search algorithms, tackling complex combinatorial optimization challenges with non-differentiable and discontinuous objective functions.
  - **Outcomes**: Improved the efficiency of timetable generation, accommodating a variety of institutional requirements and significantly reducing scheduling conflicts. Demonstrated practical applications of AI in addressing real-world problems.

Programming Skills

- **Languages**: Python, Javascript, C++, SQL, Java **Technologies**: Next.JS, MongoDB, Spring, Git