Sara-Viviana Molnar

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GitHub: MlnrSara

Date of birth: 01/11/2003   **Nationality:** Romanian

WORK EXPERIENCE

[01/09/2023 – 30/09/2023]   **Intern Java Software Engineer**

Accesa IT Systems SRL

City: Cluj-Napoca | **Country:** Romania

- I worked alongside a Java Senior Developer, developing Java and SpringBoot based applications. This training program was facilitated by the Edubiz Association.
- studied technologies: Java, SpringBoot.

[07/07/2021 – 21/07/2021]   **Apprenticeship**

Accesa IT Systems SRL

City: Cluj-Napoca | **Country:** Romania

- during this apprenticeship, I shadowed Java Senior Developers from Accesa and I started working on my certificate project (Atestat), specifically the book search via Google API part.
- here I developed my teamwork skills and I adapted to the canonical workflow.
- studied technologies: HTML, CSS, JavaScript.

EDUCATION AND TRAINING

[03/10/2022 – Current]   **Student**

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science   https://www.utcluj.ro/

Address: Strada Memorandumului 28, 400114, Cluj-Napoca, Romania |

[09/2010 – 07/2022]   **Graduate of the Mathematics-Informatics program with an intensive focus on Informatics**

"Nicolae Bălcescu" Theoretical High School, Cluj-Napoca

Address: str. Constanța nr.6, 400158, Cluj-Napoca, Romania |

PROJECTS

SpringLibrary

- An extension of the Library project, I migrated the application from a desktop version to a web-based platform. In this iteration, users can only view book details, while administrators can add new stock, access the list of registered users, and create new user accounts.
- From an architectural perspective, the project follows a combination of Layered and MVC architecture and adheres to SOLID principles.
- **Technologies used:** Java, Java Spring Boot, Java Spring Security, Thymeleaf, Lombok.

Link: https://github.com/MlnrSara/SpringLibrary

Library

- This project is a bookstore management system with authentication functionality, where each account is assigned a specific role. Users can add, delete, or sell books,

while administrators can view the user list and generate sales reports for the past month or for an individual employee's activity.
- From an architectural perspective, the project follows a combination of Layered and MVC architecture.
- **Design patterns used:** Decorator, Builder, and Factory Method.
- **Adheres to:** SOLID principles.
- **Technologies used:** Java, Gradle.

Link: https://github.com/MlnrSara/Library

TheShire

- This project is an interactive application built with OpenGL, recreating two iconic scenes inspired by *The Lord of the Rings* universe: The Shire and Mordor. The application features free first-person exploration, dynamic scene transitions, advanced lighting, and photorealistic graphical effects.
- **Technologies used:** C++, OpenGL, GLSL, GLM.

Link: https://github.com/MlnrSara/OpenGL_LotR_scene

Atestat

- This application uses the Google API to search the database for a book title that matches the information entered by the user.
- **Technologies used:** HTML, CSS, JavaScript.

Link: https://github.com/MlnrSara/Book_search

Hardware Image Binarization

- I developed a hardware-software platform for binarizing grayscale images, optimized through the use of a DMA component for efficient memory access and a modified FIFO for data processing. The image is retrieved from an SD card, transmitted to the hardware platform for binarization, and the results are saved in a new file on the card. The software application controlling the data flow and processing runs on the Digilent Zybo Z7 (Zynq-7020) board and was developed in Vitis.
- **Technologies used:** VHDL, C.

Link: https://github.com/MlnrSara/Hardware_Image_Binarization

DIGITAL SKILLS

My Digital Skills

JAVA (Spring Framework, SpringBoot, REST, Hibernate, JPA, JDBC, JAX-RS, Maven, Gradle) | C++ | C | MySQL | Oracle SQL /PLSQL | HTML | CSS | FPGA (VHDL) | Hardware Description Language (VHDL)

COMMUNICATION AND INTERPERSONAL SKILLS

Organized and disciplined

As a Communications Manager for the Edubiz Association, I was responsible for creating the content calendar and coordinating the teams responsible for creating posts. In this role, I developed effective communication skills to establish realistic schedules, manage situations where a team member did not complete their tasks, and prioritize and reallocate assignments to prevent significant gaps.

Additionally, I handled conflict resolution both within the team and between team members and senior management.

Teamleading

As a volunteer, I have coordinated multiple teams over time, such as:

- volunteer teams, for which I organized weekly meetings to plan activities for afterschool centers, ensured their participation in association-led workshops, and facilitated communication between them and my supervisors.
- the blog team, for which I organized and led weekly meetings where I provided feedback on previously written articles and assigned new tasks to team members.

Adaptability and empathy

I developed these skills while volunteering in afterschool centers for young people aged 8 to 14. Each week, I had to prepare engaging activities and select the most suitable ones based on their energy levels at the time. Additionally, before the activities, I held sessions to help them with their homework.

Through this experience, I learned to structure my thoughts and express them concisely, ensuring my explanations were clear and easy to understand.

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** C1

German

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

[2021] **Timpul - avem si nu avem**

Link: https://www.edubiz.ro/2021/02/14/timpul-avem-si-nu-avem/

[2020] **1984 de George Orwell - impresii**

Recenzia romanului "1984" de George Orwell.

Link: https://www.edubiz.ro/2020/10/04/1984-de-george-orwell-impresii/

[2020] **EduBiz lanseaza proiectul "Aripi de file"**

Link: https://www.edubiz.ro/2020/08/03/edubiz-lanseaza-proiectul-aripi-de-file-/

[2020] **Daca totul ar fi despre animale**

O fabulă care face referire la vremurile confuze din timpul pandemiei.

Link: https://www.edubiz.ro/2020/08/07/daca-totul-ar-fi-despre-animale/