

# Armand-Alexandru Balint

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## Education

### West University of Timisoara

BSc in Computer Science

Timisoara, Romania

September 2020 - July 2023

- GPA: 96% - Comprehensive Evaluation 100%
- Ranked #1 student of my year [2021-2022]
- Been awarded various performance-based scholarships
- Frequently provided mentoring which at times greatly increased course passing rates
- Thesis: Exploring and assessing the efficacy of Static Code Analysis

### Turku University of Applied Sciences

Exchange Student

Turku, Finland

August 2022 - May 2023

- Won 2 awards - Capstone & Showroom
- Lead (*and lead programmed*) in 11 large-scale projects
- Volunteered as a Teaching Assistant

## Work Experience

### System Programmer

Zo-Lar Prest

Lugoj, RO

Jan-May 2022 + Mar 2023 - Present

- Wrote various Python and Bash scripts and worked on developing a tool to speed up various daily tasks and maintenance processes
- Performed bi-weekly system checks and increased system efficiency by >200% through several system modifications and routine adjustments
- Implemented various security protocols and patches

### Teaching Assistant

West University of Timisoara

Timisoara, RO

Oct 2023 - Present

- Courses: Programming III and Algorithms and Data Structures II
- Provided specifically tailored laboratories, monitored and graded big groups of university students
- Taught various concepts of OOP and Java, such as Class Relations, Polymorphism, Generic Methods, Streams, Threads, Swing and Databases
- Taught various concepts of Algorithm and Data Structures, such as Self-Adjusting Linked Lists, Hashing, Trees, Graphs, NP-hard problems, etc.

### Host

Speak with Eve

Beijing, CH (Remote)

April 2023 - Present

- Broke the language barrier and worked together with over 20 students towards improving their English capabilities, receiving great reviews
- Delved into topics that align with the professional and individual needs of students, such as AI, Interviews and Public Speaking

### Information Analyst

Zo-Lar Prest

Lugoj, RO

Aug 2020 - Nov 2021

- Performed several data audits to ensure accuracy and successfully automated three key reporting processes, enhancing efficiency and reliability
- Improved quality of data by 120% through careful analysis, deletion of anomalies and refinement of prior entries

## Research

### Exploring and Assessing the Efficacy of Static Code Analysis (Thesis)

Supervisor: Prof. Adrian Spataru

Not Published

Oct 2022 - May 2023

- Provided a detailed introduction, explaining various types of threats, what they impose, and modes of operation.
- Conducted a thorough analysis comparing the efficiency of humans, AI, and SCA tools in detecting software vulnerabilities and threats.
- Explored the integration of AI into SCA tools for enhanced virus and threat detection capabilities.
- Compiled comprehensive findings to assess the practical advantages of AI, SCA tools, and human expertise in secure software development.

### Java Modelling Language (JML): Unveiling the Art of Behavioral Specification

Coordinator: Prof. Madalina Erascu

Not Published

Sep 2021 - Jan 2022

- Explored the superiority of JML in documentation, comparing it with other specification languages and elucidating its benefits.
- Provided a practical guide on implementing JML into Java code, including essential basics, notation, and usage.
- Prepared a LaTeX Beamer presentation to showcase, introduce and get the viewers started with the language.
- Presented in-depth code examples and explanations, facilitating a clearer understanding and practical application of JML.

### In-depth comparison of sorting methods with regard to memory and speed

Training-oriented research. Professor in charge: Adrian Craciun

Training paper

Feb 2021 - Jun 2021

- Presented theoretical aspects and detailed explanations of each algorithm, establishing a foundation for predicting possible outcomes.
- Concluded the best solutions for all scenarios after analyzing, visualizing and comparing the results.

## Awards & Competitions

10/2023	<b>Competition</b> , Cloudflight Coding Contest	Romania
04/2023	<b>Award</b> , Capstone Showroom Finalist	Finland
	<b>Award</b> , 5x Performance-based scholarships (21,000 RON) [2021->2023]	Romania
03/2023	<b>Award</b> , ICT Showroom "Out of the box"	Finland
09/2022	<b>Award</b> , Best Performing Student 2021-2022	Romania
09/2022	<b>Assessment</b> , Erasmus Selection Interview - 20/20 score	Romania
06/2019	<b>Cambridge</b> , C1 - Score: 197	Romania
2016	<b>Competition</b> , Regional Student Chess Competition	Romania
2013	<b>Competition</b> , Regional Student Chess Competition - Finalist	Romania

## Extracurriculars

<b>Feb 2024-Present</b>	<b>Volunteer Research Assistant</b>
<b>Oct 2023-Present</b>	<b>Mentor</b> for Computer Science - Team CSH Robotics
<b>Sep 2023</b>	<b>Jury</b> : Open Intelligence Grid Competition
<b>Aug-Dec 2023</b>	<b>Volunteer Teaching Assistant</b> for Object-Oriented Programming - Prof: Werner Ravayse

## Projects

<b>SISU - Finnish Immigration Assistant</b>	2023
C#, PHP, SQL, Stable Diffusion, Unity	
<ul style="list-style-type: none"><li>Led a team in the development of a fully networked card game that also include AI-based singleplayer, guilds and friend lists. Designed to offer immigration-related information while providing a leisure activity for all backgrounds.</li><li>Collaborated with managers to define key features and functionality aligning collective vision for conceptualizing a largely funded project.</li></ul>	
<b>CuDoCu</b>	2023
React, Django, RestAPI, PostgreSQL, Azure	
<ul style="list-style-type: none"><li>Developed a full-stack Contract Manager website for a startup, allowing for quick edits and real-time statistics of files.</li><li>Implemented strong security measures during the development to ensure the confidentiality and integrity of data.</li></ul>	
<b>Chesspai</b>	2022
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<ul style="list-style-type: none"><li>High-performance chess engine (estimated 1900 rating), with integrated diverse polyglot collections for improved performance and strategy.</li></ul>	

## Skills

<b>Programming</b>	Python, C#, C/C++, HTML/CSS, Java, Prolog, Haskell, SQL, LaTeX, JavaScript
<b>Miscellaneous</b>	Linux, Windows, Unity, Code Optimizations, Github / Git, VR, AR, Overleaf, Android Studio
<b>Soft Skills</b>	Leadership, Logical Approach, Teamwork, Problem-Solving, Critical Thinking, Adaptability, Mentoring, Observation

## Languages

<b>English</b>	Native proficiency - 9 years of use
<b>Romanian</b>	Native proficiency - 16 years of use
<b>French</b>	Basic proficiency - 6 years of study
<b>Korean</b>	Elementary proficiency - 1.5 years of self-study
<b>Hungarian</b>	Elementary proficiency - 5 years of use

Recommendations and references available upon request.