

Vlad-Andrei Cojocariu

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Education

UNIVERSITY BABES BOLYAI

COMPUTER SCIENCE

- Bachelors Degree

NATIONAL COLLEGE PETRU RARES

MATHEMATICS AND INFORMATICS

- Baccalaureate Diploma

Skills

FRAMEWORKS

- Experienced with Spring Boot
- Solid foundations with Laravel
- Basic knowledge with .NET

PROGRAMMING LANGUAGES

- Experienced in Java and Python
- Solid foundations in C, C++, C# and PHP
- Basic knowledge JavaScript

DATABASES

- SQL (Oracle, MySQL, PostgreSQL)
- Database design, query optimization, indexing

CLOUD COMPUTING

- AWS (EC2, S3 and RDS)

OTHER

- Git • Postman • Docker • \LaTeX
- Microsoft Office

KNOWN LANGUAGES

- Fluent: English, Romanian
- Working knowledge: German

Interests

CODING COMPETITIONS

Participate regularly in online and onsite contests solving algorithmic and data-structure challenges.

TECHNOLOGY

Built computers and devices while staying updated on evolving technology.

BODYBUILDING

Help people with fitness, developing personalized programs and providing ongoing support.

Experience

IBM

BACK END DEVELOPER JUNIOR -> MID

Responsible for development, debugging, maintenance, optimization, testing, and collaboration within a cross-functional team in the automotive industry.

- **Upgraded Java 8 to 11 and Payara 4 to 5:** Modernized dependencies, refactored outdated code, and resolved compatibility issues, enhancing security, efficiency, and stability.
- **Developed an API with Apache POI:** Designed and implemented an automation tool for generating Word documents from CKEditor input, reducing manual workload by 50%.
- **Optimized data export wait times** by developing an SQL script that filtered only parent records with children, significantly improving processing efficiency.

LIFE IS HARD

FULL STACK DEVELOPER INTERN

Responsible for learning and development in the financial industry.

- **Developed and enhanced internal projects and tools** using Laravel for back-end development and Vue (with Composition API) for front-end component creation, gaining deeper understanding of both frameworks and their integration.

PRIVATE TUTOR

C++ & C INSTRUCTOR

Provide personalized tutoring and exam preparation for children and computer science students.

- **Deliver one-on-one and small-group lessons** in C++ and C, tailoring content to each student's level and learning style.
- **Prepare students for Baccalaureate and University Entrance exams** through structured practice problems, mock tests, and targeted review sessions.
- **Manage scheduling, progress tracking, and parent/student feedback**, resulting in noticeable improvements in student performance.

Recent Personal Projects

LANDMASS PROCEDURAL GENERATION

- Developed a **procedural landmass generation system** in Unity, leveraging **Perlin noise** and advanced **mathematical algorithms** to produce **dynamic, natural-looking terrain** as part of my **bachelor's thesis**.

Tech Stack: Unity Engine, C#, Perlin Noise, Custom Math Libraries

WORKOUT TRACKER

- Engineered **GymLog**, a **responsive web app** for CRUD-based workout management and user profiles, with **secure (encrypted) login** and **OAuth2 social sign-on**, plus full create/read/update/delete of workout entries.
- Ensured cross-device **mobile and desktop responsiveness** and **deployed** on an **AWS EC2 instance** with a **production-ready Spring Boot configuration**.

Tech Stack: Spring Boot, Thymeleaf, MySQL, BCrypt Encryption, OAuth2 (Google/Facebook), Bootstrap, AWS EC2 instance