

MARCEL CODREANU

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🔗 <https://github.com/MarcelC17>

Education

Politehica University of Bucharest

Oct 2021 - present

Faculty of Automatic Control and Computer Science, **Bachelor of Computer Science and Engineering**

Relevant Coursework: Distributed Programming, Computer Graphics, Game Design, **Object-Oriented Programming, Analysis of Algorithms, Processor Design**, Functional Programming

Projects

Board Game: Gwenstone | *Java*

Nov 2022

- Back-end of a strategy card game, implemented using **OOP principles** and **JSON** parsing.
- Items and heroes with a variety of abilities and traits.

Back-end of a Movie Streaming Platform | *Java*

Dec 2022

- Video streaming platform using **design patterns**(State, Factory) that process real-time data.
- Performs multiple user-friendly features such as **queries, recommendations**, and commands.

Query Language | *Scala*

Apr 2023

- Data manipulation on sets, using **data types**.
- Provides the possibility to perform complex operations on tables using **functional programming** and manipulate new entrances in a flexible and easily extensible manner.

Instant Messaging App | *C*

Feb 2023

- Streaming application that receives messages from clients via **UDP**, filters, and sends them to subscribers using **TCP** based on their subscriptions.
- Implemented using **I/O Multiplexing** and a personalized transfer protocol.

Asynchronous BitTorrent Tracker | *C*

Nov 2023

- Implemented peer-to-peer file-sharing protocol using **MPI**, a tracker which manages a swarm of nodes.
- **Asynchronous balancer** for tracker-nodes communication and seeding.

Experience

Software Engineer - Electoral Commission

July 2023 - Nov 2024

Chisinau, Moldova

- Part of the development team for enhancing performance and ensuring security.
- Server management using Windows Admin Center.
- Improved server configuration time by 60%, by organizing tasks and developing applications using Inno Setup and Linux Bash scripts.

Innovation Labs

Mar 2024

Bucharest, Romania

- Telegram chat-bot for psychological assistance focused on first aid and support in dealing with dependencies.

Technical Skills

Medium: C, Java, Linux, Scala

Beginner: Assembly x86, C++, git, Octave, HTML, CSS, Pascal, Latex, Haskell, Verilog

Languages: Romanian(native), English(Advanced), Russian(Advanced)