Daniel Gulei

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Work Experience

AirportLabs, Software Engineering Junior   Sep 2023 – Present

- Working on an ACDM tool used by 4 of the largest airports in Europe and Asia.
- Implemented pages for the Passenger Flow Management feature used by DXB, enabling users to visualize the passenger flow data in an accessible manner through advanced charting.
- Refactored components for the tool's map feature, resulting in a performance improvement of up to 10% faster load times.
- Delivered a number of improvements and bugfixes, enhancing the stability and performance of the application.

AirportLabs, Intern Fullstack Developer   Jul 2023 – Sep 2023

- Worked on an Asset Allocation tool for airports.
- Designed and implemented a streamlined break period management system for airport personnel, enhancing the user experience and overall operational efficiency.
- Seamlessly integrated the new break management system into the existing GUI timeline.

Education

Master of Science in Computer Science   Oct 2024 – Present

- Faculty of Mathematics and Informatics, Babes-Bolyai University • Cluj-Napoca, Romania

Bachelor of Science in Computer Science   Oct 2021 – Jul 2024

- Faculty of Mathematics and Informatics, Babes-Bolyai University • Cluj-Napoca, Romania
- **Relevant Coursework:** Software Engineering, Data Structures and Algorithms, Web Development, Parallel and Distributed Systems, Mobile Development, Database Management Systems, Operating Systems

Projects

J.EVC

- Video Encoder created using Java with layered architecture.
- Encodes image data into a compressed H.263-like bitstream using temporal and spatial compression techniques.
- Provides multiple parallelization modes and execution time logging to compare their performance, providing up to a 300% improvement compared to the base implementation.
- github.com/trueNebula/J.EVC ↗

BudgetLog (Ongoing)

- Web Application for budget tracking, offering users a comprehensive overview of their income streams, expenses and investments.
- Created using Next.js and tRPC using a monolithic, DX-oriented architecture, storing data on a cloud-hosted PostgreSQL database.
- github.com/trueNebula/BudgetLog ↗

Skills

Programming Languages: TypeScript, Java, Python, C++, Kotlin, SQL, Bash

Frameworks, Libraries: React, Angular, Next.js, Node.js, Express.js, React Native, Docker, Git

Concepts and Paradigms Data Structures, Algorithms, Design Patterns, Parallelization, Testing

Spoken Languages Romanian (Native), English (Advanced), French (Intermediate)