Eduard Adrian Lupu

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EDUCATION

Babes-Bolyai University   Cluj-Napoca, Romania
Bachelor of Science in Computer Science   Sep 2021 - Jun 2024

Babes-Bolyai University   Cluj-Napoca, Romania
Master of Science in Software Engineering   Sep 2024 - Jun 2026 (expected)

WORK EXPERIENCE

BitStone   Cluj-Napoca, Romania
Junior Full-Stack Software Developer   July 2023 - present

- Acquired hands-on experience in a new dynamic project, employing **Node.js**, **TypeScript**, **Sequelize** and **Express** for back-end development, alongside **MySQL** for data management. On the front-end, I actively contribute to the implementation using **JavaScript**, **Next.js** and the **Material-UI** library.
- The application aggregates and presents music-related information from Shazam, TikTok, Spotify, and other websites. My role involved not only building the application but also collecting, combining, and optimizing enormous datasets to give our clients relevant information and a smooth experience.

BitDefender   Cluj-Napoca, Romania
Junior Software Developer   Feb 2022 - Jun 2022

- Utilized **C**, **C++** and **Win32 API** to design and implement diverse tasks, such as detecting malicious files and automating the removal of infected files. Developed efficient functionalities through the utilization of processes, threads and synchronization mechanisms.
- Conducted simulations of various cyberattacks and exploits, including buffer overflow vulnerabilities, DLL hijacking and return-oriented programming techniques. Gained expertise in devising robust preventive measures to safeguard against these threats.

SKILLS

- **Relevant courses**: OOP, Data Structures and Algorithms, Networks, Databases, Operating Systems, Graph Algorithms, Software Engineering, Mobile Programming (Android), AI, Computer Architecture, Design Patterns, Cloud Applications.
- **Languages**: JavaScript, TypeScript, Java, C/C++, Python, PHP, SQL, HTML5, CSS3.
- **Frameworks & libraries**: React, Redux, RTK Query, Next.js, Express, Sequelize, Spring Boot, JPA, Qt, Win32 API
- **Tools**: AWS, Git, Postman, MySQL, MongoDB, Maven, Gradle, Linux OS, Windows OS, Burp, Docker, Jira.

PROJECTS

Studio Pill   August 2024 - on going

- Designed a website for a friend's architecture studio in **Next.js**, **TypeScript**, and **TailwindCSS**, showcasing a responsive design, prioritizing accessibility, SEO and optimizing performance. Available at **studiopill.com**.

Shop front-end and **Shop back-end**   August 2023

- Created a full-stack online shop application using **React**, **JavaScript**, **Redux**, **RTK Query**, **Node.js**, **TypeScript**, **Mongoose** and **MongoDB**. The project offers a complete shopping experience with various features.

User management   September 2023

- Developed a user management tool using **Node.js**, **TypeScript**, **Express** and **Sequelize**. The project emphasizes industry-standard security practices, using **JWT** tokens and **bcrypt**, showcasing a reliable solution for managing users.

Tourism   April 2023

- Developed a web app using **Java**, **Spring Boot**, **Spring Boot MVC**, **JPA**, **Hibernate**, **MySQL**, **React**, **TypeScript**, **Material-UI**, **JUnit** and **Mockito**. The app oversees relationships among countries, cities, languages, tourists and visits.

Commercial Airplanes Crashes   August 2022

- Developed a **Python** page scraper using **BeautifulSoup** and **Requests** to extract commercial airplane accidents data from Wikipedia. The analyzed data, such as accidents by day and seasonal accident trends, was used in academic research.