# FÂȚĂ ALEXANDRU-MIHAIL

## JUNIOR FULLSTACK DEVELOPER

## CONTACTS

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## SKILLS

### Backend

C# · Java · Python · C/C++ · .NET · ASP.NET Core Web API · Windows Forms · Spring · MS SQL Server · SQL Developer · Entity Framework · AutoMapper

### Frontend

React · React Native · Next.js · Vite · HTML5 · CSS · JavaScript · Tailwind CSS · Axios · Mobile UI/UX principles

### Additional Skills

Git · OOP · Docker · Socket Programming · Multithreaded Server · UDP/TCP/IP · Data Structures & Algorithms · SOLID Principles · Unit Testing · Design Patterns · Embedded System (ESP32 & Arduino) · Microcontroller Programming (C/C++| PlatformIO) · Expo · Selenium · Postman · BeautifulSoup

## TRAINING / COURSES

**Apache Web Server**

**Oracle Database SQL Certified Associate**

**Java Programming MOOC**

**C++ Programming Certification Sanfoundry**

## ABOUT ME

Motivated Junior Software Engineer with a strong foundation in computer science fundamentals, including data structures, algorithms, and multithreaded programming. Skilled in C#, Java, C++, and Python, with experience in backend development (ASP.NET Core, Java Spring Boot, Node.js, SQL Server, PostgreSQL) and frontend frameworks (React, React Native, TypeScript).
Familiar with software engineering best practices, such as SOLID principles, design patterns, unit testing, and clean architecture, and comfortable working with RESTful APIs, authentication (JWT), and client-server communication (TCP/UDP). Passionate about continuous learning, adaptable to new technologies, and eager to contribute to building scalable and maintainable software solutions.

## EDUCATION

**Faculty of Cybernetics, Statistics and Economic Informatics**                                     2025 - Present
Master's Degree in E-Business

**Faculty of Cybernetics, Statistics and Economic Informatics**                                     2022 - 2025
Bachelor's Degree in Computer Science and Economics

## PROJECTS

### Smart Parking Marketplace (ASP.NET Core & React Native)

Developed a complete parking reservation platform using React Native frontend and ASP.NET Core backend. Built 15+ mobile screens with React Navigation, implemented JWT authentication with Google OAuth integration, and created 12 REST API controllers with Entity Framework Code-First database design. Features include real-time reservation system, Stripe payment integration, virtual wallet functionality, Google Maps integration for location services, and comprehensive user management with vehicle registration. Utilized React Context for state management, Expo for mobile development, SQL Server database with 10+ migrations, and Repository Pattern for clean architecture. Demonstrates full-stack capabilities with seamless mobile-to-API integration, secure payment processing, and scalable database design.
Technologies: React Native, ASP.NET Core, Entity Framework, SQL Server, Stripe API, Google Maps API, JWT Authentication, Expo, React Navigation

### Real Estate Web Application (Spring Boot & Next.js)

Developed a production-ready real estate platform that connects property owners directly with buyers and tenants, eliminating intermediaries. Built with Next.js for a fast, SEO-optimized frontend and Java Spring Boot with PostgreSQL for a scalable backend, the application delivers advanced property search with filters, map-based browsing, and zone-specific navigation. Implemented modular architecture, role-based authentication, and data validation to ensure security and clean code practices. The platform supports promoted listings, detailed property management, image uploads, and metro proximity tracking, providing a modern, user-focused experience with enterprise-grade reliability.

### Student–Professor Dissertation Portal ( Node.js & React)

Built and deployed a full-stack web platform for academic dissertation management using TypeScript across front-end (React) and back-end (Supabase). Implemented secure authentication, role-based access, and real-time APIs via Supabase's PostgreSQL-powered BaaS. Built responsive interfaces for document submission, review, and evaluation workflows. Integrated cloud storage, CI/CD pipelines, and GDPR-compliant data handling. Demonstrated expertise in scalable software delivery, RESTful API design, and full-stack TypeScript development.

### Other Projects

- **Windows Forms (C#): HR Management App – employee records & scheduling**
- **Android (Java): Cinema Booking App – displays available seats, film details, and showtimes**
- **Python: Real Estate Scraper – OLX & Storia data extraction (Selenium-based)**
- **Embedded System (ESP32): Grade Monitoring – alerts student via LED and buzzer when a grade is received**
- **Streamlit (Python): Interactive Titanic dataset analysis with machine learning (Random Forest, K-Means clustering) for passenger survival prediction.**