



FLORIN-ANDREI IVANA

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Full-stack Developer with project experience in Java, React, .NET microservices, Android and iOS. AWS Certified Cloud Practitioner with a solid foundation in cloud-native development and containerization. Proven track record of delivering web and data-driven applications through internships in Agile environments; seeking a full-time Software Engineering role in Bucharest.

EDUCATION

Master's in E-Government

POLITEHNICA BUCHAREST

Faculty of Automatic Control
and Computers 2025 - present

<https://acs.pub.ro/>

Bachelor's in Computer

Science

Transilvania University of
Brasov 2022 - 2025

<https://mateinfo.unitbv.ro/en/>

KEY SKILLS

Full-Stack Development

- React.js
- Angular
- TypeScript
- Tailwind CSS
- Java Spring Boot
- ASP.NET Core
- Python

Mobile Development

- Android (Kotlin & Jetpack Compose)
- Flutter (iOS & Android)

Cloud & DevOps

- AWS (Certified)
- Docker
- Redis
- ELK Stack
- Terraform

Architectures

- Microservices
- RESTful APIs
- Ocelot API Gateway
- JWT

Databases

- PostgreSQL
- SQLite
- SQL Server

Tools

- Git (GitHub / Gitlab)

PROFESSIONAL EXPERIENCE

Full-stack Developer Intern – Aegis Core Tech

București, România | Dec. 2025 – Present

- Worked on the development of a full-stack React & Java web application for the Green Energy Sector, alongside a dedicated Android companion app.
- Implementing end-to-end features, ensuring seamless data flow between the web dashboard and mobile interface.
- Collaborating in an agile environment to deliver scalable software solutions.
- Tech Stack: React.js, Java, Flutter Android and iOS, REST APIs.

Intern – Siemens Industry Software Romania

Remote | Based in Brasov, Romania (Oct. 2024 – Dec. 2025)

- Focused on developing bachelor's thesis project - a full-stack web and mobile ecosystem based on microservices, real-time communication (SignalR) and cloud infrastructure tools such as Docker and Ocelot.
- Researched and explored solutions for centralized logging and observability, including Logstash, Elasticsearch, and Kibana (ELK stack).
- Investigated strategies for monitoring Terraform deployments, supporting infrastructure-as-code practices and DevOps flows.

Summer Intern – Siemens Industry Software Romania

On-Site | Brasov, Romania (July 2024 – Sept. 2024)

- Gained hands-on experience in web and cloud-based development.
- Worked with AWS Services to understand cloud infrastructure and essential components such as EC2, S3, IAM, and CloudWatch.
- Closely mentored by an experienced cloud engineer who supported my technical growth and AWS Cloud Practitioner certification journey.
- Strengthened skills in Docker, Git, and back-end development flows.

PROJECTS

PlayNext – Video Game Recommender System

<https://github.com/florin-irl/PlayNext-Video-Game-Recommender-System>

- Developed a lightweight content-based recommendation engine using Python FastAPI and Scikit-learn.
- Engineered a data pipeline to scrape and process game datasets, utilizing Cosine Similarity for personalized suggestions.
- Built a secure backend with JWT Authentication and integrated Twitch/IGDB APIs for real-time game discovery.
- Implemented an onboarding flow to solve the "cold start" problem and a responsive frontend for demo purposes.
- Tech Stack: FastAPI, Python, SQLite, Scikit-learn, REST APIs, JWT.

FreightFlow – Real-Time Microservices Ecosystem

Bachelor Thesis Project | <https://github.com/florin-irl/FreightFlow>

- Distributed logistics ecosystem developed using .NET microservices, Ocelot API Gateway, Redis, SQLite, and SignalR.
- Includes a dispatcher dashboard (Angular + Tailwind CSS) and a driver mobile app (Android Kotlin) with real-time location tracking and job status updates.
- Modular architecture, structured for future scalability and cloud migration.

LANGUAGES

- English – fluent
- French – beginner
- Romanian – native

SOFT SKILLS

- Efficient communication
- Self-motivated
- Proactive learner
- Solid time management
- Analytical thinking
- Open to feedback
- Adaptable in fast-changing environments
- Reliable and supportive team member

Centralized Logging Service – ELK Stack / Docker

<https://github.com/florin-irl/centralized-logging-server>

- Prototype that demonstrates centralized logging across distributed services.
- Used Nlog, log4j2 and logback to emit logs to Logstash via TCP, HTTP & Beats in real-time.
- Configured Logstash to parse, transform, and forward logs to Elasticsearch for indexing.
- Set up Kibana dashboards for visualizing log data with appropriate filtering.
- Containerized the full stack with Docker Compose.

SuperMarket Management System – C# / WPF / SQL Server

<https://github.com/florin-irl/SuperMarket-CSharp>

- Desktop app with role-based access, CRUD operations, and SQL integrated back-end.
- Implemented MVVM pattern for clean separation of UI and logic.
- Features include soft deletion, price auto calculation, and filter based search.

BloodHub – Android Kotlin App for Blood Donation

<https://github.com/florin-irl/BloodHub/>

- Designed a mobile app that connects users with nearby transfusion centers.
- Includes appointment booking, reminders, and center location via Google Maps API.
- UI built using Jetpack Compose.

CERTIFICATIONS AND TRAINING

AWS CERTIFIED CLOUD PRACTITIONER – CLF-02

Obtained October 2024

SIEMENS SPRING SCHOOL 2024 – STRUCTURAL OPTIMIZATION USING GENETIC ALGORITHMS

Siemens – Brasov, Romania – Spring 2024

<https://www.siemens.com/ro/ro.html>

THE COMPLETE SQL BOOTCAMP: GO FROM ZERO TO HERO

Udemy – November 2023 | <https://www.udemy.com/share/101Whk/>

ACHIEVEMENTS AND PARTICIPATION

Scientific Communications Session – MI UniTBv

May 2025 – Awarded 1st Mention (MENȚIUNE I) for presenting thesis project

AFCO 2025 – UniTBv

<https://afco.unitbv.ro/>

Innovation Labs Hackathon – Bucharest – 2024

<https://www.innovationlabs.ro/>

Student Senator – UniTBv Senate (2024–2025)

Represented the interests and rights of students in the University Senate