

FLORIN-ANDREI IVANA

Full-Stack Software Engineer · AWS Certified · Bucharest, Romania

florinirl.com · <https://github.com/florin-irl> · <https://www.linkedin.com/in/florin-ivana/>

Full-stack engineer with hands-on experience across the entire delivery stack - React/Angular frontends, Java Spring Boot & .NET Core microservices, Android/Flutter mobile apps, and AWS cloud infrastructure. Built and shipped a real-time distributed logistics system as a Siemens-backed thesis project; earned AWS Cloud Practitioner certification after a mentored cloud internship. Comfortable owning features end-to-end, from database schema to pixel-level UI, in fast-moving Agile teams.



PROFESSIONAL EXPERIENCE

Full-Stack Developer – Aegis Core Tech

Dec. 2025 – Present

Romania, Bucuresti · On-site

- Sole mobile developer for a cross-platform financial monitoring and timekeeping app, architecting the solution end-to-end in Flutter for iOS and Android.
- Owned the full deployment pipeline - configured and managed Apple App Store Connect and Google Play Console enrollments independently.
- Owned full-stack features for a green energy management platform, building across web and mobile interfaces to optimize solar park operations.

Software Engineering Intern – Siemens Industry Software Romania

Oct 2024 – Dec 2025

Romania, Brasov · Hybrid

- Delivered FreightFlow - a production-grade distributed logistics ecosystem - as the Siemens mentor backed bachelor's thesis project, spanning .NET microservices, real-time SignalR communication, an Angular dispatcher dashboard, and an Android driver app.
- Designed and implemented centralized observability using ELK Stack (Elasticsearch, Logstash, Kibana) with NLog/log4j2/Logback emitters, giving the team full log visibility across distributed services.
- Researched Terraform deployment monitoring strategies to support the team's infrastructure-as-code adoption roadmap.

Summer Cloud Intern – Siemens Industry Software Romania

Jul 2024 – Sep 2024

Romania, Brasov · On-site

- Gained certified-level proficiency in AWS core services (EC2, S3, IAM, CloudWatch, VPC) under mentorship of a senior cloud engineer, directly enabling the AWS Cloud Practitioner certification obtained Oct 2024.
- Strengthened Docker containerization and Git workflow skills applied directly in subsequent thesis internship.

PROJECTS

FreightFlow – Real-Time Microservices Ecosystem

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

- Architected a distributed logistics platform using .NET microservices behind an Ocelot API Gateway, with Redis caching, SQLite persistence, and SignalR for real-time driver-dispatcher communication.
- Built two client interfaces: an Angular + Tailwind CSS dispatcher dashboard (live map, job queue) and an Android Kotlin driver app (Jetpack Compose, live location, job status).
- Modular, container-ready architecture designed for horizontal scaling and AWS cloud migration.
- Awarded at the Scientific Communications Session, UniTBV, May 2025.

Stack – .NET Core, Ocelot, Redis, SignalR, Angular, Tailwind CSS, Android Kotlin, Jetpack Compose, Docker, SQLite

PlayNext – AI Game Recommender System

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

- Built a content-based recommendation engine with Cosine Similarity (scikit-learn) on top of a scraped and preprocessed IGDB dataset, serving personalized suggestions via a FastAPI backend.
- Integrated Twitch/IGDB OAuth APIs for real-time game data; implemented an onboarding flow to solve the cold-start problem for new users.
- Secured all endpoints with JWT authentication; delivered a responsive demo frontend.

Stack – Python, FastAPI, SQLite, scikit-learn, JWT, Twitch/IGDB APIs

Portable ECG Monitoring System

- Built a portable real-time cardiac monitoring system from scratch, combining an AD8232 ECG sensor with an Arduino UNO R4 WiFi for signal acquisition and wireless transmission.
- Developed a companion mobile app displaying live ECG waveforms and triggering tachycardia alerts when heart rate exceeds 100 BPM.
- Designed and assembled the full physical circuit including electrodes and signal connectors.

Stack – Arduino (C++), AD8232, Arduino UNO R4 WiFi, Flutter/Android, Firebase, WiFi streaming

Centralized Logging Service – ELK Stack

- Prototyped a production-style centralized logging architecture across distributed services, emitting structured logs via TCP, HTTP, and Beats from NLog, log4j2, and Logback.
- Configured Logstash pipelines for parsing and enrichment; built Kibana dashboards for real-time filtering and alerting. Containerized the full stack with Docker Compose.

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

Stack

Elasticsearch, Logstash, Kibana, Docker Compose, NLog, log4j2, Logback

BloodHub – Android Blood Donation App

- Mobile app connecting donors with nearby transfusion centers – includes appointment booking, push reminders, and center geolocation via Google Maps SDK.

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

TECHNICAL SKILLS

Frontend	React.js · Angular · TypeScript · Tailwind CSS
Backend	Java Spring Boot · ASP.NET Core · Python FastAPI · REST APIs · SignalR
Mobile	Android (Kotlin + Jetpack Compose) · Flutter (iOS & Android)
Cloud & DevOps	AWS (Certified Cloud Practitioner) · Docker · Terraform · ELK Stack
Architecture	Microservices · API Gateway (Ocelot) · Redis · JWT Auth
Databases	PostgreSQL · SQLite · SQL Server
Tools	Git (GitHub / GitLab) · Agile / Scrum

EDUCATION

Master’s in E-Government

POLITEHNICA BUCHAREST Faculty of Automatic Control and Computers

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

2025 – Present

Bachelor's in Computer Science

Transilvania University of Brasov

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

- 1st Mention – Scientific Communications Session, May 2025
- Student Senator, UniTBv Senate (2024–2025)
- AFCE 2025 participant
- Innovation Labs Hackathon 2024

2022 – 2025

Oct 2024

Spring 2024

CERTIFICATIONS AND TRAINING

- AWS CERTIFIED CLOUD PRACTITIONER – CLF-02 – Amazon Web Services

Siemens Spring School – Structural Optimization with Genetic Algorithms – Siemens Romania

The Complete SQL Bootcamp: Zero to Hero – Udemy
- Nov 2023

LANGUAGES

English (Fluent) · Romanian (Native) · French (Beginner)