

Miclea Răzvan

Frontend-focused developer experienced in building user-friendly web and mobile interfaces with React and Flutter, alongside hands-on backend work using Java and Spring Boot. Proficient at delivering end-to-end features, integrating databases and APIs, and collaborating with teams to meet project goals.

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EXPERIENCE

Hibyte Intelli, Timisoara— Backend Developer Intern / Backend Developer

MARCH 2022 - JULY 2022

This was my first professional role, which I got shortly after finishing high school and being self-taught. Before joining, I had built a foundation in OOP with C#, basic JavaScript and some React, and Python (OOP, data structures, pandas, numpy) during my first semester at university. At Hibyte Intelli, I consolidated my Java skills with the help of a mentor, focusing on OOP concepts, streams, and clean architecture. My first task was working on an older BaaS project, extending components defined in JSON and supported by Java code, which were exported to a Backend-as-a-Service platform used by a legacy application. Later, I joined a proof-of-concept project for the Romanian medical system aimed at automating bureaucratic procedures. There I worked with Kotlin and Jakarta EE, implementing database access, repositories, services, and controllers, and modeling entity relationships with Hibernate. The internship gave me practical experience in backend development and domain-driven design. At the end of the internship I received a part-time offer, but I chose a full-time role to continue growing professionally.

Technologies: Java, Kotlin, Jakarta EE, Hibernate, JSON

Virtual7 Romania, Timisoara— Full-Stack Developer

JULY 2022 - PRESENT

Travel Application - I initially developed a mobile app meant to be a portable version of the internal Travel application. Although the project didn't reach production, it helped me learn internal processes and work independently with minimal guidance. Later I moved to the main web application (microservices) used by teams in Romania and Germany. The core Travel component is used daily by about 200 colleagues. I worked with the team to deliver features that had a real impact on the product. Starting as a junior, I strengthened my OOP skills, learned how system components interact, and gained techniques for troubleshooting complex issues.

Responsibilities and achievements:

- Frontend development: implemented features and fixed bugs (for example, adding buttons and actions tied to business processes).
- Implemented backend–frontend communication flows and integrated with existing APIs.
- Created complex reports directly from the database and added new entities to the system.
- Optimized scheduled jobs by rewriting some ORM-based processes in SQL, reducing processing time and improving performance.

- Supported various departments by resolving tickets and adapting the application to new requirements.
- Wrote unit and integration tests to increase code stability.

Technologies: VS Code, Postman, Java, Spring Boot, Oracle DB, Hibernate, Oracle JET, SQL, Spring ecosystem.

Freelancer App - Internal application for managing freelancers and related documents (timesheets, RCI forms, invoices), currently used by ~25 colleagues and planned to scale to ~150 in the coming years. I was part of a small team and quickly took on the role of primary contact and technical owner.

I led the project team, re-prioritized requirements, and made technical decisions when proposed designs weren't feasible. Working closely with the designer, I gathered requirements and suggested practical compromises when solutions were overly complex, keeping the final product intuitive and achievable. I contributed across the full stack—building backend functionality with Spring Boot and microservices, and adding frontend features—while starting the migration from Oracle JET to Flutter Web. For security and identity management, I worked with the global admin to create group structures and role mappings in Azure/Microsoft Entra ID, set up Microsoft accounts in our tenant, and defined app roles mapped to groups to ensure secure access across local, test, and production environments. On the DevOps side, I coordinated with our infrastructure colleague to set up Docker, NGINX, and storage, and advised on secret management and operational best practices. I also implemented document management features like statuses, signing, email workflows, and PDF optimization and merging. To boost efficiency, I built reusable Flutter components—such as interactive tables with inline editing—and helped with containerization and CI/CD pipelines. Throughout the project, I kept communication clear and managed stakeholders, coordinating with Finance, Legal, the development team, and external contractors to ensure smooth delivery. I served as the technical owner of the application, leading key technical decisions and guiding the project's architecture. The internal product, currently used in Romania and Germany by around 25 users, is planned to scale to approximately 150. Throughout this experience, I strengthened my skills in cross-functional coordination, translating technical concepts for non-technical stakeholders, and making business-oriented decisions that aligned with organizational goals.

Technologies: Java, Spring Boot, Oracle Database, Flutter Web, Oracle JET, Docker, NGINX, CI/CD, Microsoft Entra, OpenID Connect, Keycloak, Spring Security.

Conference App - I led the development of a standalone web application to replace a fragile legacy system that depended on multiple interconnected containers (DB, Keycloak, JHipster apps, microservices) behind a single Nginx reverse proxy. The old setup was hard to maintain, error-prone, and required developer help for every content update, making it slow and frustrating for users. I designed a new architecture using Supabase for the backend, leveraging its Postgres database, built-in authentication, real-time updates, and edge functions. The frontend was built with React and Redux and deployed as a single container to simplify operations and reduce overhead. For authentication and role management, I integrated Microsoft Entra to provide single sign-on and secure access for both admins and attendees. Working closely with a marketing team of four and a design colleague, I gathered requirements and refined features to meet business needs and create a smooth user experience. I also coordinated with DevOps and SysAdmin colleagues to configure environments, set up deployment pipelines, and implement secure role-based access control. This project deepened my Postgres knowledge, helped me leverage Supabase's real-time features, and strengthened my React/Redux skills especially for dynamic, interactive interfaces. I implemented sortable, filterable schedules that update automatically when admins or users make changes, real-time

updates for presentations, attendee participation tracking, live voting, session feedback collection, and full self-service content management for the marketing team.

Despite tight timelines, the app was successfully delivered, used by approximately 150 people across Romania and Germany, ran smoothly with minimal bugs, and received highly positive feedback. This project strengthened my ability to make technical decisions under pressure, align with cross-functional teams, and balance user experience, performance, and operational efficiency.

Technologies: Supabase, Postgres, Microsoft Entra, React, Redux, Docker

German Public Sector Application Migration - I am currently working on an ongoing migration project for a German public sector client, transitioning a legacy application from Backbone.js to React. My main responsibility is to find and implement solutions for incremental migration, allowing both frameworks to coexist during the transition without causing a big bang deployment on the existing system. I coordinate with a small team to create and maintain a development environment that supports this hybrid approach, ensuring we can migrate components gradually while maintaining stability. I have migrated several components from Backbone to React, set up the local development environment to support both frameworks running in parallel, and continue to work on expanding this migration strategy across the application. This experience is giving me practical insight into legacy modernization challenges, framework interoperability, and coordinating technical work in a regulated public sector context.

Technologies: React, Backbone.js, JavaScript, Webpack

Freelancer — Software Developer/Technical Consultant

AUG 2023 - PRESENT

Tedde Auto App

I served as the sole developer on a commissioned project for TEDDE AUTO, leading the end-to-end delivery of a management application that digitized internal documents and streamlined work-order flows. I managed the entire project lifecycle—gathering requirements, designing the solution, implementing features, testing, deploying, and providing initial support—while working closely with stakeholders to ensure the app met their daily operational needs.

Taking full product ownership, I translated business requirements into technical specifications, created the design, implemented features, and delivered both Android and web builds. I maintained regular communication with the customer through short review and demo sessions, gathered feedback, reprioritized tasks, and provided consistent progress updates.

Technically, I built a single codebase in Flutter (Dart) targeting both Android and web platforms, using an MVVM architecture with a repository layer for maintainability and testability. For the backend, I leveraged Firebase (Firestore, Auth, Storage, Cloud Functions) to enable real-time data synchronization, authentication, file storage, and server-side logic. I implemented role-based access control using Firebase Auth for admins and mechanics, added two-factor authentication for administrators, and wrote Firestore security rules to protect sensitive data.

I designed Firestore collections and indexes for efficient querying while minimizing real-time listeners to control read costs. Testing was iterative, combining unit tests for services with manual UI testing. I managed staged releases via Android APKs and Firebase Hosting for the web to support the initial rollout.

The solution eliminated manual paper handoffs, reduced administrative time and material costs, improved work order traceability, and centralized document archiving. The application is reliable, maintainable, and built to scale with the business.

This project was my first opportunity to lead a full software development lifecycle from concept to delivery. I embraced the responsibility by establishing clear, consistent communication with the customer that built trust and ensured alignment throughout. By adopting lightweight Agile practices, I created a flexible, iterative workflow that allowed us to adapt quickly to changing requirements without losing momentum. This approach was crucial for navigating resource constraints and ultimately enabled me to deliver a reliable, user-focused product.

Technologies: Flutter, Firebase

Business Intelligence Dashboard

I developed a business intelligence dashboard for inventory and customer analytics, currently in production and used since 2024. The application connects to the customer's central Oracle database—the core system they've been using since 2004 to manage their entire inventory—and transforms raw operational data into actionable insights through interactive reports and visualizations.

The dashboard provides my customer with a comprehensive view of their business by analyzing customer behavior, contract trends, vehicle data, financial metrics, and performance comparisons across different time periods. I designed and implemented an ETL pipeline using Python to extract, clean, and transform data from the Oracle database, then store it in Supabase for efficient querying and real-time access. The frontend is built with Next.js, providing a responsive, user-friendly interface for exploring reports and visualizations.

We are now scaling the platform to support marketing initiatives based on the data-driven insights generated by the dashboard. This project allows me to combine data engineering, backend architecture, and frontend development into a cohesive solution that turns complex operational data into clear, strategic insights.

Technologies: Next.js, Supabase, Python, Oracle SQL

Teaching Assistant – Database Course

Tibiscus University of Timișoara, Timișoara — Present

Support second-year students in learning database fundamentals through lab sessions, assignment guidance, and project support. Focus on SQL programming, data modeling, query optimization, and database design while integrating practical industry insights into teaching.

Technologies: SQL, Database Design, Data Modeling

EDUCATION

Bachelor's Degree in Applied Informatics, Faculty of Computers and Applied Informatics, Tibiscus University, Timișoara — 2025

Completed 2 years of Informatics coursework, Faculty of Mathematics and Informatics, West University of Timișoara

CERTIFICATIONS

Microsoft Azure Fundamentals (AZ-900) — 2025

SKILLS

Technical Skills

Frontend & Mobile: React (Redux, Next.js), Flutter (Web, Android, iOS), Oracle JET

Backend & APIs: Java & Spring Boot (REST, Microservices), Python, PostgreSQL, Oracle

Tools & Practices: Firebase, Supabase, Azure AD/OpenID Connect, Docker, CI/CD

Core Strengths / Soft Skills

- Proven track record of delivering end-to-end features
- Quick learner, adaptable to new technologies
- Strong communication and teamwork

LANGUAGES

Romanian (Native), English (Proficient)