

# David FLOREA

## Front End & Python Developer

### Profile

I am truly passionate about the power of computer science and always looking to develop my personal skills. I want to become a full-stack developer and I am always ready to face new challenges and learn new technologies. The single opponent I have is the yesterday me. That is my daily motivation.

### Skills

#### Core Languages & Fundamentals

JavaScript (ES6+) / TypeScript / HTML5 / CSS3 / Browser APIs (DOM, Web Storage, Fetch, IntersectionObserver)

#### Frameworks & Libraries

React.js / Next.js / React Native / Vue.js / Node.js / ASP.NET

#### State Management

Redux / Redux Toolkit / React Query (TanStack Query) / Zustand / Context API + useReducer

#### Styling

Tailwind CSS / Styled Components / CSS Modules / Responsive & Mobile-first Design / Animations (CSS transitions, Framer Motion)

#### Testing

Jest / React Testing Library (RTL) / E2E basics (Cypress, Playwright)

#### Tooling & Build

Vite / Webpack / Turbopack / ESLint + Prettier / npm, yarn, pnpm / Babel, SWC

#### API & Data

REST API consumption / GraphQL basics (Apollo, urql) / WebSockets, SSE / OpenAPI, Swagger

#### Performance & Optimization

Code splitting & lazy loading / Memoisation (useMemo, useCallback, React.memo) / Core Web Vitals (LCP, CLS, FID) / Bundle analysis (Lighthouse, webpack-bundle-analyzer)

#### Architecture & Patterns

Component design patterns (compound, render props, HOC) / Custom hooks / Feature-Sliced Design (FSD) / SOLID / Monorepo basics (Nx, Turborepo)

#### Version Control & Collaboration

Git (branching strategies, rebase, conflict resolution) / GitHub

#### Other Languages & Databases

C/C++ / Python / MySQL / MsSQL / Oracle

### Work Experience



fyrGo, fyrGate, fyrPortal

February 2024 - December 2025

Fyrqom AB

- Built a cross-platform mobile application (React Native) enabling real-time communication with a BLE peripheral device (TDR-100), handling device discovery, connection lifecycle, and bidirectional data transfer.
- Integrated a TensorFlow-based machine learning pipeline for automated truck license plate recognition, bridging the ML model with the React Native UI layer.
- Designed and configured an end-to-end CI/CD pipeline - from commit hooks through automated testing to zero-downtime deployment - reducing release overhead and minimising human error.
- Leveraged React Native's native modules (Swift/Kotlin) to offload performance-critical data processing from the JS thread, significantly improving throughput and UI responsiveness.

### Contact

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### Education

- Bachelor of Science**  
Technical University of Moldova  
2024-present
- Software Development Course**  
StepIT Academy  
Completed in 2024

### Languages

- English - C1
- Italian - B2
- Romanian - Mother Tongue
- Russian - A2

### Awards

February 2024 | Municipal Computer  
Science Olympiad

3rd Place 🏆

- Architected and delivered a React web platform for aggregating and visualising telemetry data streamed from the fyrGo and fyrGate mobile applications, with real-time updates and filtering capabilities.
- Implemented a secure authentication flow using JWT, including silent token rotation via refresh token strategy and automatic session recovery - ensuring seamless UX without compromising security.
- Designed and built reusable, fully custom chart components from scratch without relying on third-party charting libraries.

## ELECTRA

**January 2026 - Present**

*Electronica ELECTRA GRUP*

- Designed and maintained a unified monorepo codebase serving both a React web platform and a React Native mobile application, with maximum logic reuse across shared modules (hooks, services, state, utilities).
- Enforced a strict Feature-Sliced Design (FSD) methodology across the codebase, organising layers (app / pages / widgets / features / entities / shared) to ensure scalability, clear ownership, and zero cross-layer violations.
- Architected a peer-to-peer WebRTC communication layer between the mobile app and internet-connected intercom hardware, covering full signalling flow, ICE negotiation, and connection state management.
- Integrated full-duplex audio via WebRTC media streams, managing microphone capture, audio routing (earpiece / speaker), and permission handling across iOS and Android.
- Rendered the intercom's real-time video stream inside the app using a custom Canvas-based renderer, with native module support for decoding and displaying JPEG frames at high throughput.
- Offloaded performance-critical JPEG processing to native code (Swift / Kotlin) via React Native's native module bridge, keeping the JS thread unblocked and maintaining consistent frame rates under load.
- Implemented application-wide state using Redux Toolkit, with AsyncStorage-backed persistence for session continuity and offline resilience across app restarts.
- Integrated a full i18n layer supporting multiple languages, with dynamic locale switching and provider-based context propagation throughout the component tree.
- Implemented OAuth-based authentication via major social identity providers (Google, Apple, Facebook), with secure token handling and provider-agnostic session management.
- Integrated Firebase Cloud Messaging (FCM) for foreground and background push notifications, including deep-link navigation on tap and silent data payloads for real-time intercom call alerts.
- Consumed and abstracted RESTful backend services through a typed API layer with JWT auto-refresh.

## Projects

### Basarab's Cup Website

**August - September 2024**

A web application developed on React + ASP.NET for my StepIT Academy degree. Website's main purpose is to manage the team registration and the schedule of matches within a football championship.

### Invitro App

**October-November 2024**

A mobile application developed on React Native + Node.js during GigaHack 2024. This project aims to simplify the process of scheduling doctor appointments and consolidating all medical tests and analyses into a single application.

## Reference

GitHub  
davidfl10

Link:  
<https://github.com/davidfl10>

LinkedIn  
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