

# Gutu Mihai

Frontend Developer

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Moldova, Chisinau

## SUMMARY

Frontend developer with 3+ years of experience building responsive web applications and cross-platform mobile apps using React and React Native. Proven track record of delivering performant, scalable, and maintainable codebases in fast-paced product teams. Comfortable owning features end-to-end - from architecture decisions and component design to code review, performance optimisation, and release. Experienced working in Agile environments with close collaboration across design, backend, and QA teams.

## PROFESSIONAL EXPERIENCE

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### fyrGo, fyrGate, fyrPortal | Fyrqom AB & Volvo Group

Jan 2023 - Apr 2024

- **Developed a cross-platform BLE application** - 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.
- **TensorFlow license plate recognition** - Integrated a TensorFlow-based machine learning pipeline for automated truck license plate recognition, bridging the ML model with the React Native UI layer.
- **CI/CD pipeline setup** - 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.
- **Native code for data processing** - Leveraged React Native's native modules (Swift/Kotlin) to offload performance-critical data processing from the JS thread, significantly improving throughput and UI responsiveness.
- **Web platform for fyrGo & fyrGate** - 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.
- **JWT auth with token auto-refresh** - 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.
- **Custom charting components** - Designed and built reusable, fully custom chart components from scratch (without relying on third-party chart libraries), optimised for performance and tailored to specific data visualisation requirements.

### HR Platform | MSign & MConnect

Apr 2024 - Dec 2024

- **government e-signature integration (MSign)** - Integrated the Moldovan state electronic signature service (MSign) into HR document workflows, enabling legally valid digital signing of employment contracts and official documents directly within the platform.
- **governmental interoperability (MConnect)** - Connected the HR platform to Moldova's MConnect interoperability gateway for real-time data exchange with public registries, automating employee data validation and reducing manual data entry.
- **frontend architecture** - Built a scalable React.js + TypeScript frontend for an enterprise HR system, leveraging React Query for server state management, Redux for global state, and Tailwind CSS for a responsive, accessible UI across complex HR workflows (onboarding, document management, employee records).

## ELECTRA | Electronica ELECTRA GRUP

Apr 2024 - PRESENT

- **Monorepo** - shared React & React Native infrastructure - Designed and maintained a unified codebase serving both a React web platform and a React Native mobile application, with maximum logic reuse across shared modules (hooks, services, state, utilities).
- **Feature-Sliced Design (FSD) architecture** - Enforced a strict Feature-Sliced Design methodology across the entire codebase, organising layers (app / pages / widgets / features / entities / shared) to ensure scalability, clear ownership, and zero cross-layer violations.
- **WebRTC-based intercom network** - Architected a peer-to-peer communication layer between the mobile app and internet-connected intercom hardware using WebRTC, covering full signalling flow, ICE negotiation, and connection state management.
- **Full-duplex audio pipeline** - Integrated full-duplex audio via WebRTC media streams, managing microphone capture, audio routing (earpiece / speaker), and permission handling across iOS and Android.
- **Live video rendering** - intercom camera feed - 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.
- **Native modules for JPEG frame processing** - 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.
- **Global state management - Redux + AsyncStorage** - Implemented application-wide state using Redux Toolkit, with AsyncStorage-backed persistence for session continuity and offline resilience across app restarts.
- **Internationalisation (i18n)** - Integrated a full i18n layer supporting multiple languages, with dynamic locale switching and provider-based context propagation throughout the component tree.
- **Social login (OAuth)** - Implemented OAuth-based authentication via major social identity providers (Google, Apple, Facebook), with secure token handling and provider-agnostic session management.
- **Firebase push notifications** - Integrated Firebase Cloud Messaging (FCM) for both foreground and background push notifications, including deep-link navigation on tap and silent data payloads for real-time intercom call alerts.
- **REST API integration with JWT auto-refresh** - Consumed and abstracted RESTful backend services through a typed API layer with centralised error handling, request interceptors, and automatic token refresh on 401 responses.

## SKILLS

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- **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
- **State Management** - Redux / Redux Toolkit - React Query (TanStack Query) - Zustand - Context API + useReducer
- **Styling** - Tailwind CSS - Styled Components - CSS Modules - Responsive Design / Mobile-first - 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 reading
- **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) - CI/CD basics (GitHub Actions, GitLab CI) - Code review best practices - Agile / Scrum workflow
- **Soft Skills** - Ability to estimate tasks independently - Mentoring junior developers - Technical documentation writing - Proactive communication with backend & design teams

## EDUCATION

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Licență / Technical University of Moldova

## LANGUAGE

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**Ru:** Language representative

**Ro:** Language representative

**Eng:** B2