






# Aleksander Cieřla

## SENIOR FRONTEND DEVELOPER

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 Katowice (*open to relocation*)  
 Polish (Native)  English (C1)  
 Spanish (A2, learning)

Senior Frontend Engineer with 6 years of experience delivering mission-critical UI architectures for FinTech (**NatWest Boxed**) and **Government Maritime Safety (EMSA)**. Specialized in modernizing legacy systems to **React/Next.js**, implementing **Micro-frontends**, and integrating **GenAI Agents** to optimize engineering workflows. Proven track record of performance optimization in high-traffic environments.

**Core Skills:** React, TypeScript, Next.js (SSR/SSG), Micro-frontends, GraphQL  
**Testing & Tools:** Cypress, Jest, CI/CD, Docker, Kubernetes, AI Integration.

## PROFESSIONAL EXPERIENCE (6 years total)

### Senior Software Engineer (React/TypeScript) - NatWest Group PLC - Warsaw, London

01/2024 - 01/2025 (2 years)

Strategic Project: Lead frontend development for a mission-critical banking operations platform used globally.

#### Key Achievements:

- **AI Adoption Strategy:** Initiated and prototyped an **internal GenAI assistant (Gemini LLM)** to resolve documentation bottlenecks, significantly improving knowledge sharing and onboarding efficiency.
- **Architecture & Quality:** Took ownership of modular component architecture using **React, TypeScript, and MUI**. Increased **E2E test coverage (Cypress) to 80%**, reducing regression incidents.
- **Process Optimization:** Analyzed cross-team inefficiencies and **proposed a restructuring plan** that eliminated workflow bottlenecks, accelerating the delivery cycle by ~30%.
- **Mentoring:** Acted as a technical touchpoint for the squad, conducting code reviews and **enforcing Clean Code standards**.

Skills: React · TypeScript · GraphQL · Next.js · Generative AI · Cypress E2E Testing

### React Developer (Micro-frontends) - Altia Consultores S.L. - Alicante

09/2022 - 12/2023 (1 year, 4 months)

Project: Global Maritime Surveillance Platform for the European Maritime Safety Agency (EMSA).

#### Key Achievements:

- **Mission-Critical System:** Developed a **high-traffic visualization platform** tracking global vessel movements, marine pollution (oil spills), and maritime accidents in real-time to support EU safety operations.
- **Micro-frontend Architecture:** Co-developed a complex ecosystem of 5 micro-frontends. Personally architected and delivered the critical "Data Import Module" from scratch.
- **Legacy Migration:** Successfully migrated legacy Angular modules to a modern **React & OpenLayers ecosystem**, improving maintainability and performance.

- Performance: Implemented a **Pub/Sub communication pattern** between micro-frontends and optimized rendering logic for data-heavy maps (thousands of live objects).
- Technical Leadership: In a challenging environment, I stepped up to drive technical decisions, unblock the team during critical sprints, and manage communication with the Product Owner.

Skills: TypeScript · OpenLayers · React · Micro-frontends · Kubernetes · SCSS / SASS

### Software Engineer - IMG Arena LLC - Żernica, London

01/2022 – 08/2022 (8 months)

Project: Real-time Sports Data & Betting Dashboards.

#### Key Achievements:

- High-Performance UI: Built data-intensive dashboards handling **real-time WebSocket streams for live sports events (Global Tournaments)**.
- Optimization: Refactored complex state management to **Redux**, reducing memory usage by ~20% during high-load scenarios.
- Design System: Contributed to a shared UI component library (**Styled-components**) used across multiple product teams, ensuring brand consistency.
- Quality: Authored comprehensive **Unit Tests (Jest)**, raising module coverage to ~80%.

Skills: React · Redux.js · styled-components · SCSS / SASS

### Web Developer (Gatsby / React) – GrupaTaka s.c. - Gliwice

10/2020 – 09/2021 (1 year)

Developed high-performance static websites using Gatsby.js (React ecosystem) and GraphQL.

Optimized Core Web Vitals (SEO) and rendering performance, achieving 95+ Google Lighthouse scores.

Implemented custom **Headless CMS** integrations and managed the **full CI/CD deployment** process for client applications.

### React Developer - FlightScope Sp. Z o.o., Żernica

04/2019 – 10/2019 (7 months)

Contributed to the development of the "All-Japan Tennis Championship" live results application.

My work reached millions of users.

Built reusable UI components using React & TypeScript and implemented unit tests.

## Education

Tech School ZSTI Gliwice | 2016 – 2020

1st Place Winner - Regional AI Hackathon (2019): Lead Developer of a winning neural network prototype for image recognition.

Top 3 Laureate - Inter-school Algorithms & Programming Competition (C++).

Co-Founder & Lead Developer - School GameDev Club: Mentored 10+ students and led the development of an award-winning educational game engine.

## Certifications

Web Dev - Naples - EuroPass by Euroform RFS  
EPS/2018/EM/22232/1

International certificate of website development  
by WBS TRAINING AG. Dresden.  
2017-1-PL01-KA102-036408

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