



# KACPER BARTŁOMIEJCZAK

## Fullstack Developer

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### PROFILE SUMMARY

Software Engineering student specialized in the modern React ecosystem. Focusing on full-stack development using Next.js 15 and React 19. Experienced in architecting type-safe applications with Drizzle ORM and PostgreSQL. Proven ability to deliver complex projects under time pressure (Hackathons) and integrate frontend interfaces with AI/ML backends. Passionate about clean code architecture and performance optimization.

### EDUCATION

#### Nicolaus Copernicus University

2023 - Present

- Computer Science student

### PROJECTS

#### AI Anomaly Detector | Next.js 15, TypeScript, Websockets

[Live](#) [Github](#)

- Built a real-time X-ray anomaly detection dashboard for the National Revenue Administration (KAS) using Next.js, TypeScript, and WebSockets.
- Implemented a custom WebSocket hook to receive and render ML inference results (Base64 images with Grad-CAM heatmaps) in real time.
- Designed a type-safe API contract using TypeScript Discriminated Unions, ensuring strict frontend-backend communication.
- Built a purpose-built UI for customs officers with fullscreen image inspection, live connection status, and persistent scan history via localStorage.

[Live](#) [Github](#)

#### Hello Anime | Next.js 15, TypeScript

[Live](#) [Github](#)

- Built an anime discovery platform with Next.js 16 (App Router) and TypeScript, integrating Jikan REST API with a custom rate limiter to handle API throttling
- Optimized search functionality using a custom debounce hook to minimize API requests and improve UX
- Implemented responsive UI with Tailwind CSS v4, Framer Motion animations, and Swiper carousels for dynamic content presentation
- Wrote unit tests with Jest covering utility functions, async API logic (mocked fetch), and React hooks (renderHook), achieving full test coverage on core modules.

#### Personal Portfolio Website | Next.js, TypeScript, i18n, Cookies

[Live](#) [Github](#)

- Built a custom glassmorphism design system with Framer Motion animations and responsive layout.
- Implemented i18n (EN/PL) with dynamic sitemap and full SEO optimization (OpenGraph, hreflang).
- Architected modular UI with 45+ reusable components, Radix UI primitives, and custom React hooks.
- Integrated contact form (React Hook Form + EmailJS), GDPR cookie consent, and performance monitoring.

### PROFESSIONAL SKILLS

- Core Frontend: JavaScript (ES6+), TypeScript, React 19, Next.js (App Router).
- Styling & UI: Tailwind CSS, Framer Motion, Shadcn/ui.
- Backend: Drizzle ORM, PostgreSQL
- Deployment: Vercel, Github Pages
- Tools & Workflow: Git, GitHub, VS Code, npm/pnpm, Vite.
- Test library: Jest