

Karol Przygoda

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EDUCATION

Kielce University of Technology

February 2025

Bachelor of Science in Computer Science, specialization: Information Systems

Kielce, Poland

- **Thesis:** “The Design and the Implementation of the E-learning Platform for programmers in the Cloud Environment”
- **Thesis Grade:** 5.0

EXPERIENCE

MESKO S.A.

July 2024 – September 2024

Student Intern

Skarżysko-Kamienna, Poland

- Designed and implemented an interactive online onboarding form for new employees, including:
 - Client and server-side data validation.
 - Automatic generation of a PDF document from user input.
 - Email delivery module forwarding the PDF to HR.
 - Usability testing with 20 participants; gathered feedback and refined the solution.
 - **Technologies:** TypeScript, React.js 18, Node.js, React-PDF, React-Hook-Form, Zod, Axios, Nodemailer, Tailwind CSS

PROJECTS

E-Learning Platform for Programmers | [GitHub](#)

A web application for solving algorithmic challenges inspired by LeetCode and Codewars.

- Implemented a simplified microservices architecture with a dynamic pool of Docker containers to process user submissions in various programming languages.
- Managed concurrent user submissions and inter-service messaging via Apache Kafka.
- Improved performance and SEO by using static site generation (SSG).
- Developed a responsive, customizable UI using Tailwind CSS and the shadcn/ui component library.
- Integrated an AI assistant (via Vercel AI SDK and OpenAI API) to guide users through challenges.
- Handled authentication, authorization, and data management with Supabase and Prisma ORM.
- Created a Markdown editor from scratch with live preview to clearly display challenge details.
- **Technologies:** TypeScript, Next.js 15, Tailwind CSS, shadcn/ui, Zustand, Supabase, Prisma, React Hook Form, Zod, Vercel AI SDK, Apache Kafka, Docker, Framer Motion, React Markdown

Cinemawave | [GitHub](#)

Pixel-perfect Netflix clone, demonstrating strong attention to detail and UI/UX implementation skills.

- Implemented a robust TMDB API integration.
- Designed and implemented sophisticated UI components (dropdown, offcanvas, accordion, tooltip, hover card).
- Created a custom animation system with WAAPI support from scratch:
 - Built a polymorphic Motion component supporting various HTML elements.
 - Implemented animations for UI components (dropdown, tooltip, hover card).
- **Technologies:** TypeScript, Next.js 15, Tailwind CSS, Supabase, Prisma, React Hook Form, Zod, TMDB API

TECHNICAL SKILLS, LANGUAGES & INTERESTS

- **Programming Languages:** TypeScript, JavaScript (ES6+), Java, C/C++
- **Technologies:** Next.js, React, Node.js, HTML5, CSS3, PostgreSQL, Tailwind CSS, Bootstrap, Zustand, Prisma ORM, React Hook Form, Zod, shadcn/ui, Framer Motion
- **Developer Tools:** Git, GitHub, WebStorm, IntelliJ, CursorAI, VS Code, Figma, Supabase, GitHub Copilot
- **Languages:** Polish (Native), English (B2)
- **Interests:** Football, Video Games