Maciej Twaróg

Full-Stack Web Developer

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Self-taught full-stack developer and recent high school graduate with **4 years** of hands-on, project-based experience building web applications. Currently seeking an entry-level role where I can keep growing as a developer and contribute to a team.

Technical Skills

Languages	TypeScript, JavaScript, HTML, CSS, SQL · Familiar with Python
Frameworks & Libraries	React.js, Next.js, Astro, Node.js, Express, PayloadCMS, Vite, Zustand
Communication	REST, WebSockets, WebRTC
Styling	Tailwind CSS, SASS, styled-components, MUI, Motion
Databases & ORM	PostgreSQL, MongoDB, Redis, SQLite, Drizzle ORM
Testing & Quality	Vitest, Playwright, ESLint, Prettier, Biome, lint-staged
Tools	Git, GitHub, GitHub Actions, Cloudflare, Vercel, Docker, Codex, Open Code, Google Analytics, Figma

Projects

Math Course Platform

Next.js · TypeScript · PostgreSQL · Redis · Stripe · PayloadCMS

Source · Demo

Full-stack e-learning platform for selling and delivering online math courses, combining a custom CMS, secure payments, and protected video/media delivery on a production-grade stack.

- Implemented full secure Authentication with Google OAuth, One Tap, email verification, block for disposable emails, rate and session limiting with **Redis** to prevent account sharing
- Achieved **~100** Lighthouse performance score by splitting large Markdown lessons into sections and rendering only visible content
- Customized headless **Payload CMS** for Markdown/LaTeX lessons, added scheduled publishing with **QStash**, signed/public **Mux** video streaming, and protected **Cloudflare R2** images with blur placeholders
- Integrated a **Model Context Protocol (MCP)** server into the CMS, letting AI clients draft, edit, and review content with API-key-scoped access control per collection
- Optimized SEO for free lessons: OG image generation and XML sitemaps with per-lesson metadata
- CI/CD with GitHub Actions & Vercel: automated quality checks (dead code, linting, type safety, tests); production deployments blocked on failure

Clean Copy

TypeScript · WXT · SCSS · Playwright · GitHub Actions

Source · Chrome Web Store

Browser extension that copies only the user's selected text, preventing websites from injecting unwanted content into the clipboard.

- Built a fully automated CI/CD pipeline with **GitHub Actions**: runs quality checks and **Playwright E2E tests**, builds the release, and publishes directly to the **Chrome Web Store** with a single command

Productivity App

React.js · TypeScript · Vite · MUI · PWA · WebRTC

Source · Demo

Privacy focused task management Progressive Web App with **300+ active users** and **380+ GitHub stars**.

- **P2P WebRTC** device synchronization via QR Code scan
- Full offline support with **PWA** service worker caching; installable on all platforms
- JSON import/export for data portability; link-based task sharing
- Integrated **on-device AI** (Gemini Nano) via Chrome's LanguageModel API for contextual suggestions