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Sergio Castillo

I am a software engineer and UI designer based in Glasgow, Scotland. I have over 5 years of experience crafting user-centred web applications and in-house products and have led multiple projects from concept to delivery - currently focused on using TypeScript, React, Next.js, and Tailwind CSS to create visually engaging and highly functional digital experiences.

Work Experience

Software Engineer, Voly

Remote (05/2025 - Present)

- Built and maintained features across a yachting crew management SaaS platform, working within a domain-driven Typescript/React/GraphQL codebase.
- Contributed to architectural decisions including Domain Driver Design migration, React Compiler adoption, automated dependency management with Renovate and CI optimization.
- Established team standards on git workflows and release processes, including the adoption of trunk-based development and pull request gating through testing/linting/typechecking.

UI Designer, Itison

Glasgow (05/2024 - 04/2025)

- Designed user-friendly, engaging, and visually pleasing design solutions on the web, mobile and email platforms for an in-house product reaching over 1.7 million members.
- Engineered prototypes on Figma and Sketch to visualise and test design concepts and flows, enabling iterative feedback and tailoring features for customer and business needs.
- Conducted 5+ usability testing sessions and performed UX research to inform design decisions, address usability issues and optimise the user journey and product functionality.
- Enhanced and maintained the design system for a visually consistent and scalable design across products and socials, standardising brand guidelines and accessibility requirements.

Front-End Developer / Designer, Mission 10

Aberdeen (09/2021 - 04/2024)

- Designed and built websites and in-house applications for 30+ clients, ensuring high-quality, lead-generating, and high-performing user-centred experiences.
- Led 10+ web projects from concept to delivery, including UI/UX, design systems, stylescapes, and front-end implementation using Tailwind CSS, Craft CMS, Alpine.js, Vue, and React.
- Spearheaded a Vite.js upgrade, resulting in a reduction from 90s to 15s in build times and significantly improving development workflows.
- Optimised website performance and accessibility to improve sites speed and usability and achieved a 35-point boost on the Google PageSpeed metrics.

Full-Stack Developer, Make Tech Fly

Remote (07/2020 - 07/2021)

- Made key contributions to developing a full-stack PHP web application for the private aviation industry, participating in project management, implementation, and QA.
- Designed and built a design system, including creating a custom SASS-based CSS framework, achieving a standardised, visually consistent and accessible user experience.
- Implemented a test automation suite using Selenium, the Robot Framework, and Python, reducing bugs in production by 50% and resulting in more efficient and reliable software.
- Orchestrated cohesive branding and product design, integrating graphic and web design elements for a unified user experience.

Digital Intern, Fifth Ring

Aberdeen (06/2019 - 06/2020)

- Developed and maintained marketing websites for 15+ clients using Craft CMS, Wordpress, PHP, jQuery, and Sass, ensuring browser compatibility and responsiveness.
- Developed single-page applications on React, delivering interactive web experiences that fulfilled client requirements and showcased modern front-end technologies.
- Pioneered innovative AR effects to create highly interactive, engaging experiences.
- Received training in Inbound Marketing and SEO, skills then used to improve client website visibility and user acquisition.

Education

BSc (Hons) Computer Science, First Class

RGU, Aberdeen (09/2016 - 06/2021)

- Core modules include software engineering, database management, human-computer interaction, data structures and algorithms, compilers, cybersecurity, data science, and AI.
- Highlighted projects include developing web applications using Node.js, Express, Vue, and React, Android and desktop applications with Java, building a compiler using C# or machine learning models, and data visualisation using Python.

Projects

New Tab - Chrome Extension

- New Tab is a browser extension that provides a minimal, inspiring start to the browser experience. It is available for Chrome and Mozilla and has a rating of 5/5 stars.
- It was designed using Figma and implemented using React, TypeScript, Tailwind, Plasmo, and the Unsplash API.

Orxata DS - Design System, Repository

- Orxata is a design system built to support a talk on Design Systems and Tailwind CSS for GlasgowJs, with 50+ attendees and 200+ views on YouTube.
- It was designed using Figma and implemented using TypeScript, React, Next.js, Tailwind, CLSX, and Tailwind Merge.

Skills

- **Programming languages:** TypeScript, JavaScript, HTML & CSS, Python, PHP.
- **Web technologies:** React, Next.js, Vue, Nuxt, Redux, Node, Express, Tailwind CSS, Laravel.
- **Database management systems:** MySQL, MongoDB, PostgreSQL.
- **Professional skills:** Software engineering, UI design, front-end development, agile methodology, problem-solving, communication, and team collaboration.