

Pierre Charles

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Experienced software engineer with a track record of delivering innovative, user-friendly and accessible web solutions. With a passion for UX/UI design, a deep understanding of frontend technologies and a keen interest in backend development, I have successfully delivered projects for a diverse range of industries including homeowners/tradespeople, pet insurance, energy providers, security, and travel/tourism. Seeking a challenging role that offers growth opportunities and the chance to make a meaningful impact where I can bring my technical expertise and creative vision to contribute to the success of a dynamic organisation.

Technical skills

Programming languages: TypeScript, JavaScript, HTML, CSS, SASS/SCSS

Libraries & frameworks: React, Next.js, Vue.js, Node.js, ExpressJS, Redux, Pinia, Styled Components

Tools & platforms: Netlify, Vercel, Strapi, Storybook, Datadog, Sentry, AWS, GCP

Professional experience

Hometrack

Full-stack engineer

JUNE 2024 - PRESENT

Checktrade

Senior engineer

MAY 2023 - APRIL 2024

- Played a pivotal role in the core frontend team to optimise Checktrade.com using Next.js and TypeScript, prioritising AB testing methodologies to continually enhance user experience and performance
- Actively participated in "code rampages" to reduce technical debt and enhance the codebase. This included transitioning areas from JavaScript to TypeScript, improving the reusability of styled-components and utils, creating reusable and accessible components, while also focusing on testing using Jest, React Testing Library, and Playwright
- Introduced Storybook to facilitate code reusability across teams and enhance observability by establishing a toolkit as the brand guideline. Developed high-standard components with a focus on semantics and accessibility
- Led the migration of Strapi from v3 to v4 by creating new GCP projects using Terraform, managing database backups with PostgreSQL and actively using the Strapi APIs to implement custom API routes for complex business logic
- Led the transition from Sentry to Datadog in the frontend, providing comprehensive training to wider teams to effectively utilise Datadog. This included demonstrating how to search/filter logs, create dashboards, alerts, monitors and how to write queries, all while ensuring proactive error detection and resolution
- Collaborated with a team to develop a SPA utilising Google's Solar API, enabling homeowners to visualise solar panel installations and potential energy savings while also promoting tradespeople specialising in solar panel installations via the Checktrade website
- Utilised pino.js and pino-http in the Node backend to format and categorise logs sent to GCP, optimising logging processes for improved system performance and troubleshooting
- Integrated linting tools and other best practices (ESLint, Husky, commitlint, GitHub workflows) to ensure code efficiency and adherence to coding standards
- Onboarded and mentored junior developers, serving as a primary point of contact and providing guidance to support their professional growth and success within the team.

ManyPets

Frontend developer

AUGUST 2022 – APRIL 2023

- Worked on a vet portal application previously managed by external consultants
- Migrated the application from Vue 2 to Vue 3, transitioning from the Options API to the Composition API
- Implemented state management using Pinia and VueUse for persistent storage
- Designed reusable, accessible components and achieved optimal Lighthouse scores
- Introduced comprehensive unit, component and system tests to an application that had 0% coverage
- Communicated with users to gather feedback and continually improve the application's user experience
- Continually contributed to backend systems built with Node.js and AWS Amplify
- Used Sentry for error tracking, alerting, and monitoring
- Monitored logs using Cloudwatch, addressed errors and failures during investigations
- Tracked and analysed user behaviour with Heap.io to identify areas for improvement and optimise the application's performance.

MoneySuperMarket

Developer

JUNE 2021 – AUGUST 2022

- Worked on and developed B2B, B2C applications with a focus on TypeScript, Vue.js and Vuex
- Successfully transformed a B2C SPA (MoneySavingExpert) into a white-label platform while preserving consistency and efficiency
- Implemented features that underwent A/B testing using Optimizely to drive better metrics and improve conversion and user retention
- Conducted comprehensive testing in many codebases using a range of methodologies such as unit, end-to-end, integration and schema tests all in the aim of reducing errors and covering possible all use cases.

Garrison Technology

Junior software engineer

JULY 2020 – JUNE 2021

- Contributed to the development and enhancement of multiple SPAs used in hardware-based security appliances for secure web browsing, improving usability and user experience
- Collaborated with the backend teams to ensure seamless communication between the frontend and backend
- Played a key role in UX decision-making and designed customer-facing applications with accessibility in mind
- Used Storybook to establish an internal library for efficient use of UI components across multiple frontend platforms
- Implemented and reviewed comprehensive end-to-end testing using Cypress and Puppeteer for integration testing to validate new features and components
- Established pipelines using GitLab CI to monitor and test all environments, ensuring the reliability of code changes.

Education

University of Kent, Canterbury

First-Class Honours Bachelor of Science in Computer Science with a Year in Industry

SEPTEMBER 2016 – JUNE 2020