

BENJAMIN MORSE

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SUMMARY

Full-stack Developer with 6 years of experience specialising in React and Python-based web applications. Experienced working with both small and large clients, with strong skills in Agile methodologies and continuous integration.

SKILLS

Technologies: Proficient with React, Next.js, Redux, MobX, Django, Wagtail, Django Rest Framework, GraphQL, Python, SCSS, Tailwind CSS, and exposure to additional tools and frameworks.

Product Development: Built and maintained Single Page Applications along side GraphQL and REST APIs.

Testing: Experience in unit, integration and visual regression testing with Pytest, Unittest, Jest, and Playwright.

DevOps: Comfortable working with CI/CD pipelines, Docker, and deploying applications on cloud platforms including Heroku and VPS providers like DigitalOcean, and some exposure to AWS and Azure.

EXPERIENCE

OpenSolar

Software Engineer

October 2024 - March 2025

Remote

- Led the end-to-end development of a third-party solar panel permitting integration, gathering requirements, liaising with product stakeholders, implementing robust error handling, and producing thorough technical documentation.
- Advised on Next.js, monorepos, build tooling, and end-to-end testing to support team best practices, implement tooling upgrades, and resolve architectural blockers.
- Took initiative to identify and improve critical database optimization, scalability, and type issues, while also logging less critical issues.
- Gained rapid familiarity with a large codebase, contributing to both backend and frontend feature development, while onboarding and mentoring new team members and contractors.

Torchbox

Full-stack Developer

July 2019 - October 2024

Bristol, England

- Launched several single-page and progressive web applications using React and Python, including pitchfinder.org.uk, griefguide.sueryder.org, mcsuk.org/beachwatch-app, and mcsuk.org/goodfishguide. These applications are making a positive social impact.
- Contributed to the architecture, development, and migration of various websites, including server-side rendered and headless CMS solutions. Helped clients remain competitive with modern performant, scalable websites which also complied with their requirements for UI/UX and WCAG AA/AAA accessibility standards.
- Facilitated the transition to a headless CMS architecture for a client with a large legacy digital infrastructure, collaborating closely with their internal developers and producing detailed technical documentation. Additionally, spearheaded a successful design system proposal, now being gradually adopted by the client's product teams. The design system incorporates Storybook support for both React and Vanilla JavaScript components (served via Django), with comprehensive code coverage and visual regression testing.
- Managed ongoing support tasks for site maintenance, including debugging and resolving errors, handling deployments, upgrading packages, and setting up production, staging, and on-demand test environments.

DACAAR

Intern

July 2018 - Aug 2018

Kabul, Afghanistan

- Refactored and debugged the NGO's website to enhance code readability, maintainability, and performance.

- Supporting, working and capacity building with the national IT staff, whilst learning about the company's infrastructure and the constraints of operating in a conflict country.

EDUCATION

The University of Nottingham

June 2019

BSc in Computer Science

Upper Second-Class Honours

Dissertation: Developed and measured the performance of an RSS reader with a content-based recommender system using machine learning techniques aimed at preserving user privacy.

Software Quality Assurance Group Project: Developed software whilst applying ISO and IEEE standards to the software development life cycle.

Software Engineering Group Project: Developed an Object Detection System using Google Maps SDKs and APIs integrated with a Convolutional Neural Network.

ABOUT ME

I have a passion for building solutions to problems, with my latest side project being TeamView.dev a tool that helps distributed teams stay aligned across time zones. I'm an avid DIY enthusiast, having converted my van into a camper-van with a 12V solar panel system, allowing me to code remotely while camping. I also enjoy open water swimming, bouldering, and have recently taken up running, which I guiltily enjoy posting about on Strava. I'm committed to both accessibility and sustainability, having provided mentoring, conducted web sustainability audits, contributed to a G-Cloud 13 service offering for sustainability audits, provided UX/UI feedback aligned with Web Content Accessibility Guidelines (WCAG) and Web Sustainability Guidelines (WSG), and been part of the Wagtail accessibility team, all outside of my internal project commitments.