Toby Twigger

⊙ Milton Keynes   ✉ tobytwigger1@gmail.com   📞 07808 046108   🔗 tobytwigger.github.io   ⊙ tobytwigger

Senior full-stack developer with a passion for solving real-world problems. I take pride in thoughtful and accessible design, high quality code and purposeful solutions. I'm deeply motivated by projects that contribute to the public good, and I care about making technology approachable, effective, and inclusive.

Experience

Swytch   **September 2022 - Present**
Lead Developer   *London*

- Led the full development lifecycle of a bespoke ERP system, including a live warehouse platform for stock management, international dangerous goods shipping, and stock forecasting.
- Architected a scalable solution enabling daily releases, rapid iteration and business impact, and real-time business intelligence - improving on-time deliveries from 30% to 70%.
- Replaced manual workflows using systems, allowing a reduction of stock overheads by £1M through a just-in-time stock pivot.
- Integrated AI to automate customer support and internal operations.
- Oversaw project planning and stakeholder communication, ensuring the product aligned with the business strategic goals.
- Mentored a junior developer, enabling her to balance the value delivered to the company with personal growth.

ElbowSpace   **July 2021 - August 2022**
Senior Full-Stack Developer   *Remote*

- Led development of a custom platform for Student Union membership management.
- Worked closely with customers and other developers to target features and prioritise development.
- As the first hire, I played an integral part in managing ElbowSpace, gaining a much wider experience of running a startup and the pitfalls involved.
- Analysed and assessed new technology for suitability in certain situations, making architectural decisions where necessary.

Jadu   **August 2020 - July 2021**
PHP Web Developer   *Remote*

- Worked in a small team to deliver bespoke sites to UK councils, with a focus on usability and accessibility.
- Collaborated with the core CMS developers to ensure a smoother developer experience and quicker results for the customer.
- Took the initiative to improve tooling around the CMS, including adding Docker support and extending documentation.

Bristol Student Union   **July 2017 - July 2021**
Systems Developer   *Bristol*

- Developed multiple bespoke platforms and tools to reduce cost and friction in day-to-day work.
- Spotted and implemented process improvements throughout the organisation.
- Sole developer in a company of around 200 people, allowing me to gain a wide range of experience in many different areas and languages.

Main Technologies

Languages: PHP • JavaScript • Typescript • HTML • CSS • Python • SQL • Bash • Flutter • Kotlin • C#
Frameworks: Laravel • Vue.js • React • Tailwind
Tools: LLMs • Git • AWS • CI/CD (Github Actions) • PHPUnit • Jest • Webpack • NPM • Composer

Education

University of Bristol   *2015-2019*
MSci (Hons) in Physics - 2:1
- Dissertation involved creating a machine learning algorithm to analyze data from the Large Hadron Collider.

Torquay Boys' Grammar School   *2013-2015*
International Baccalaureate
- 37 points, including highers of Maths, Physics and Economics.

Projects

Laravel Settings   *github.com/tobytwigger/laravel-settings*
A Laravel package to provide custom global and user settings
- Built on my previous object oriented work to produce an extendable and testable codebase.
- Integrated with Vue.js using TypeScript and Jest in an NPM package.
- Wrote and managed the documentation for this project.

Signed URLs   *github.com/linkeys-app/signed-url*
A Laravel package to provide signed URLs with advanced expiration settings and excrypted data
- Implemented a selection of design patterns where appropriate to ensure ease of use and integration for other developers.
- Wrote a full test suite to improve robustness of the project.
- Released open source so others could benefit from my work.

Bristol SU Portal   *tobytwigger.github.io/projects/bsu*
A web-based platform to deliver a wide range of no-code services to students
- Saved over 50% of staff and student time for the reaffiliation of student-led groups.
- Took the project from an initial idea to deployment, and then continued to maintain to provide a high quality platform.
- Pitched the project to external clients and garnered interest in the portal.

UniTruths   *uni-truths.com*
Student community hub management software
- Improved the maintainability of the code by implementing SOLID principles and improving the test suite.
- Managed the server to ensure the ~75000 monthly visitors can enjoy uninterrupted access to the website.

Core Skills

- **Self-taught**: I began learning at age 10 from books, building a score counter for family board game nights. Since then, I've continued to drive my own learning to master new technologies, languages and tools.
- **Collaborative and independent**: I work equally well alone or in a team, adapting to the needs of each project.
- **Proactive problem-solver**: Skilled at identifying potential issues before they escalate, and implementing solutions that improve efficiency and reliability.
- **Dynamic workload management**: Experienced at prioritising work effectively in fast-changing environments, to meet deadlines without sacrificing quality.