

# Toby Twigger

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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 - particularly those that encourage sustainable transport or help make nature more accessible. I care about making technology approachable, effective, and inclusive.

## Experience

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### 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 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, infrastructure, and stakeholder communication, delivering a cohesive vision and enabling cross-team collaboration and rapid business impact.
- 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

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**Languages:** PHP • JavaScript • Typescript • HTML • CSS • Python • SQL • Bash • Flutter • Kotlin • C#

**Frameworks:** Laravel • Vue.js • React • Tailwind

**Tools:** LLMs • Git • AWS • CI (Github Actions) • PHPUnit • Jest • Webpack • NPM • Composer

## Education

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### 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

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### Laravel Settings

[github.com/tobytwigger/laravel-settings](https://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](https://github.com/linkeys-app/signed-url)

*A Laravel package to provide signed URLs with advanced expiration settings and encrypted 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](https://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](https://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

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- **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.