

# Tom Husband

Full stack engineer

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Portfolio: <https://thusbanduk.github.io/portfolio/>

## Summary

Quick learner who forms strong, positive relationships with colleagues and clients. Proven ability to communicate complex ideas in a digestible format. Looking to specialise in coding following more than a decade of working as a chemistry teacher.



## Technical Skills

< Javascript />  
< CSS />  
< HTML />  
< React / Redux />  
< PostgreSQL />  
< Node.js / Express />



## Certificate

Full Stack Engineering  
Codecademy

Online course introducing principles of web design. Skills covered: CSS, HTML, Javascript, testing, asynchronous functions, the React and Redux Frameworks, Node.js, Express, Passport, PostgreSQL and principles of database management, web security, common algorithms, data structures, connecting front end to back end.



## Work experience



**Chingu** – Back end developer  
May 2023 – Jun 2023 / Online

- 📁 Used Agile methodology to produce the first iteration of a new app
- 📁 Built the back end of the app, which will allow users to save encrypted journals
- 📁 Used dependencies including Node.js, Express, PostgreSQL and Passport to connect front end with database, including authentication of users



**Freelance** – Web developer  
Sep 2022 – Apr 2023 / Bristol

- 📁 Built a website for children's book author Sarah Lavelle - <https://sarahlavelle.co.uk>
- 📁 Responsive website introduces the author and features downloadable resources
- 📁 Configured with Google Analytics, cookie consent banner and compliant with GDPR legislation



**Freelance** – Web developer  
Oct 2022 – Feb 2023 / Bristol

- 📁 Built a website for a local artisan who makes picture frames - <https://ravenframes.co.uk>
- 📁 Responsive website showcases work and publishes contact information



## Education



**University of Cambridge** – MEd Education in Science  
Oct 2012 – Jul 2013

Critical evaluation of academic literature, culminating in the design and implementation of a research project.



**University of Sheffield** – BSc Chemistry  
Oct 1998 – Jul 2001

Batchelor's degree in chemistry, including laboratory work and theories of organic, inorganic and physical chemistry.

## Key skills

### Teacher

- ☐ Planning and delivering lessons
- ☐ Providing feedback
- ☐ Motivating students
- ☐ Explaining complicated ideas
- ☐ Pastoral care of students
- ☐ Promoting well-being

### Examiner

- ☐ Carefully reading scripts
- ☐ Critically evaluating answers
- ☐ Checking for subtle details that may improve or prejudice an answer
- ☐ Identifying and rewarding alternative approaches

### Science writer

- ☐ Identifying intriguing examples of everyday science to describe
- ☐ Researching the underlying science
- ☐ Producing accurate copy
- ☐ Responding to feedback from editors
- ☐ Explaining complex ideas in an engaging, clear way

### Publications

- ☐ *The Sweet Science of Candy Making*, 2014, ChemMatters, Washington, ACS, <http://bit.ly/1HltVdm>
- ☐ *Polished Polymers*, 2015, The Mole, Cambridge, RSC, <https://bit.ly/3MCjGIK>
- ☐ *Chocolate's Champion Chompability*, 2013, The Mole, Cambridge, RSC, <https://rsc.li/41S9D6R>



## Further work experience

### Freelance

*Jun 2018 to present*

- ☐ Chemistry tutoring for GCSE and A-level students
- ☐ Marking public A-level chemistry exams, 2018, 2019, 2022, 2023, OCR A exam board
- ☐ Science writing for educational text books, publishers including Oxford University Press, Cambridge University Press

### Teaching

**QT Education agency**, Portishead

*Aug 2018 to Jul 2020*

**Second in Science**, Norton Hill School, Midsomer Norton

*Aug 2017 to Jul 2018*

**Science Leader**, Christ's College Finchley, London

*Aug 2016 to Jul 2017*

**Chemistry teacher**, CATS College, London

*Aug 2014 to Jul 2016*

**Chemistry teacher**, Hendon School, Barnet, London

*Aug 2011 to Jul 2014*

**English teacher**, Australia Pacific College, Sydney, Australia

*Aug 2008 to Aug 2009*

**English teacher**, University of International Business and Economics, Beijing

*Aug 2006 to Jan 2008*

**English teacher**, Beijing International Studies University, Beijing

*Aug 2005 to Jul 2006*

### Other information

**Worked as a news reporter**, Southern Daily Echo, Southampton

*Sep 2002 to Jan 2005*

**Backpacking in Asia**

*Aug 2008 – Aug 2009*

**Long term ambition**

To build a website / app that helps students learn chemistry in a fun and engaging way.