

Sian Matthews

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Profile: I'm a dedicated and analytical problem solver with a strong foundation in mathematics, engineering, and education. After more than 10 years of teaching mathematics and developing educational content, I have transitioned into software development to combine my logical thinking, attention to detail, and love of building things into a new career in programming.

I recently completed the Codecademy Full-Stack Engineer Path, including React, Node.js, Express, and PostgreSQL. Alongside this, I have built a range of personal projects - from productivity tools to interactive web apps - demonstrating my ability to design, develop, and deploy full-stack applications.

My background in engineering and education means I bring excellent communication skills, rigorous testing habits, and a deep understanding of how to break down complex problems and deliver clear, reliable solutions.

PROFESSIONAL EXPERIENCE

(March 2021-present): Maths Teacher / Joint Maths Lead (September 2025-present)

Gloucestershire Hospital Education Service

- Delivered online and face-to-face teaching to individuals and small groups.
- Planned lessons aligned with schemes of work and tracked student progress.
- Liaised with link tutors and supported safeguarding practices.
- **Built a custom lesson planning and scheme-tracking app using C# and Blazor** to improve team efficiency and lesson quality.

(August 2015-Jan 2025): Various roles within further and higher education

Gloucestershire Engineering Training

Academic Consultant [contract] (March 2021 – present)

- Planned, delivered, and assessed Level 5 HND Engineering and Maths units.
- Provided internal verification and quality assurance support.
- **Developed a Blazor WebAssembly IQA tracking tool** to streamline moderation and evidence management.

Deputy Academic Team Leader (September 2019 – March 2021)

- Implemented quality assurance strategies and met with external examiners and inspectors.
- Collaborated with senior leadership on process improvements.
- Conducted observations, staff appraisals, and 1-to-1s.

Senior HE Tutor (April 2018 – March 2021)

- Oversaw learner progress tracking and implemented interventions.
- Led regular department meetings and supported staff and learners.
- Supported external inspection and compliance processes.

Engineering Tutor (2015 – March 2021)

- Designed and delivered Level 3–5 Engineering and Maths units.
- Created assessment materials and provided written feedback.
- Maintained learner records and supported academic development.

(September 2013-August 2015): Secondary School Maths Teacher

Wallingford School: September 2013 – August 2014, John Mason School: September 2014 to August 2015

- Delivered Mathematics at Key Stages 3–5.
- Planned differentiated lessons and tracked learner progress.
- Supported students pastorally as a form tutor.

(July 2010-May 2012): Graduate Engineer

Tony Gee and Partners LLP, Esher

- Contributed to civil engineering design for major infrastructure projects.
- Supervised placement students and collaborated with clients.
- Produced detailed reports and technical documentation.

QUALIFICATIONS/EDUCATION

Level 4 IQA Award: December 2020

Level 3 Award in Assessing Vocationally Related Achievement: December 2019

PGCE in Mathematics: Postgraduate Certificate of Education, University of Oxford, 2013

Master's degree: Engineering Sciences (MEng), 1st Class, University of Oxford, 2010

A-Levels: Further Maths, Maths, Physics, Chemistry (All grade A)

References available on request.