

# John Walley

📍 Cambridge, UK ✉ [john.walley@mulberryhousesoftware.com](mailto:john.walley@mulberryhousesoftware.com) 🔗 <https://www.walley.org.uk>

🌐 [johnwalley](#) 🔄 [johnwalley](#) 🐦 [johnmwalley](#)

Full-stack developer and entrepreneur with over 15 years of experience delivering robust applications and innovative software solutions. Expert in TypeScript, JavaScript, and data visualisation, with a proven track record of leading cross-industry projects from conception to deployment.

## Experience

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### Mulberry House Software

*May 2016-Present*

*CEO & Founder*

Founded and grew a software consultancy delivering innovative solutions across multiple industries.

- Developed a floor planner in collaboration with Reno, a leading UK home renovation startup.
- Designed visualization tools for the pension industry in partnership with Financial Canvas.
- Created open-source data visualization libraries with over 80,000 weekly downloads (Allotment & Pennant) for Vega, a decentralized derivatives trading network.

### Redgate

*July 2015-May 2016*

*Trainee Product Manager*

Enhanced product visibility and usage for a newly acquired database deployment tool.

- Increased awareness and adoption through targeted marketing and outreach strategies.
- Implemented in-product analytics to provide actionable insights.
- Collaborated with UX specialists to prioritise features and improve user experience.

### Redgate

*June 2014-July 2015*

*Software Developer*

Developed solutions to streamline SQL Server database deployment for users of popular release management tools.

### Sungard

*March 2012-May 2014*

*Software Developer*

- Contributed to a scalable framework powering a high-performance risk analytics service.
- Developed a tracing just-in-time compiler, enabling C# financial models to run efficiently on GPUs.

## Various

August 2011-March 2012

*Software Developer (Freelance)*

- Designed algorithms for human motion capture using low-cost inertial sensors.
- Developed a bespoke financial trading tool tailored to an independent trader's needs.

## Fidelity

November 2010-August 2011

*High Performance Computing Developer*

- Designed and implemented quantitative methods as part of the applied HPC team.
- Advocated agile development practices, including iterative approaches and stakeholder feedback.

## MathWorks

May 2007-November 2010

*Application Engineer*

- Worked directly with customers to understand their technical and business challenges.
- Served as the main UK technical contact for MathWorks parallel computing tools.
- Prepared and delivered presentations to customers and prospects.
- Provided feedback to the commercial and R&D organisations.

## QinetiQ

October 2004-May 2007

*Research Scientist*

- Assessed and improved warship stealth technology.
- Developed multi-sensor fusion techniques to enhance situational awareness.
- Created object tracking algorithms using C++, MATLAB, and Python.

## Newcastle University

Summer 1998 & 1999

*Research Assistant*

- Conducted data analysis and modelling for a mass spectrometry experiment in Fortran.
- Co-authored a peer-reviewed paper: 'Hyperfine-resolved spectrum of the molecular dication  $\text{DCI}^{2+}$ '.

## Education

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### University of Oxford

September 2002-August 2003

*MSc in Mathematical Modelling and Scientific Computing*

- Studied mathematical modelling, numerical linear algebra, numerical optimisation and distributed computing for computational finance.
- Explored the numerical solution of magnetic fluid flow in my dissertation.

- Studied a wide variety of topics with an emphasis on applied mathematics, statistics and theoretical physics.

## Skills

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**Languages:** TypeScript, JavaScript, CSS, C#, MATLAB

**Frameworks & tools:** React, Node.js, D3, Git, Next.js

**Specialised expertise:** Data visualisation, data analysis, API design

**Soft skills:** Technical mentoring, product management, public speaking