

# John Walley

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Senior software engineer with deep experience building data-intensive and performance-critical web applications, specialising in data visualisation and complex UI systems. Strong background in TypeScript, React, and modern frontend architecture, with a track record of designing maintainable systems, improving developer experience, and tackling hard technical problems. Comfortable operating as a senior individual contributor, influencing technical direction, mentoring engineers, and collaborating closely with product and design to deliver high-quality outcomes.

## Experience

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### Cambridge Intelligence

*June 2025–Present*

*Software Developer*

Senior engineer working on high-performance data visualisation tools used by analysts to explore complex graph, temporal and geospatial data. Contributing across product architecture, developer experience, and performance-critical UI components.

### Mulberry House Software

*May 2016–June 2025*

*Founder & Principal Engineer*

- Designed and delivered data-driven web applications and visualisation tools across multiple industries.
- Built a production floor-planning application in collaboration with Reno, a UK home-renovation startup.
- Designed visualisation tools for the pensions industry in partnership with Financial Canvas.
- Created and maintained open-source data-visualisation libraries (Allotment and Pennant) with 80,000+ weekly downloads, used by the Vega decentralised derivatives trading network.
- Founded and grew a consultancy, leading technical delivery while remaining hands-on with architecture and implementation.

## Redgate

*July 2015–May 2016*

*Trainee Product Manager*

- Improved visibility and adoption of a newly acquired database deployment tool.
- Introduced in-product analytics to support data-driven product decisions.
- Worked closely with UX and engineering 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.

## Earlier Career

*2004–2012*

Held technical roles spanning high-performance computing, applied research, and customer-facing engineering, including:

- High Performance Computing Developer at Fidelity
- Application Engineer at MathWorks (UK technical contact for parallel computing tools)
- Research Scientist at QinetiQ, working on multi-sensor fusion, object tracking, and stealth technology

## Skills

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### Languages:

TypeScript, JavaScript, CSS, C#, MATLAB

### Frontend & visualisation:

React, HTML Canvas, Web Workers, D3, high-performance rendering, large-scale data visualisation

### Platform & tooling:

Node.js, Next.js, Astro, Vite, Webpack, pnpm, git, monorepos

### Specialised expertise:

Data visualisation, API design, data analysis

**Soft skills:**

Technical leadership, decision-making, mentoring, cross-functional work, product focus, architecture reviews, engineering standards, technical communication, public speaking

## Education

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**University of Oxford***2002–2003**MSc in Mathematical Modelling and Scientific Computing***University of Cambridge***1999–2002**BA in Mathematics*