

# JOHN WALLEY

An enthusiastic and flexible individual with a proven background in technical computing. Looking for opportunities which sit at the intersection of technology, business and design.

## CONTACT

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## SKILLS

### SOFTWARE ENGINEERING

C#, Javascript, MATLAB, CUDA, d3.js, React, Android, build & deployment tools

### COMMUNICATION

Proven ability to adapt presentations to the technical level of the audience and comfortable presenting to large groups

### PRODUCT MANAGEMENT

Analytics, prioritization, specifications, user interviews

### TECHNICAL SALES

Familiar with the sales process, practiced in uncovering customers' underlying pain points, and experienced in developing relationships as part of responsive customer service

## EXPERIENCE

CEO and Founder  
*Mulberry House Software / 2017 - Present*

Data visualization products and services.

[www.mulberryhousesoftware.com](http://www.mulberryhousesoftware.com)

- Building Remarkable Charts. Create beautiful charts in seconds with Excel and PowerPoint
- Designed and implemented interactive dashboards to enable pension experts to explore financial models
- Visualization of a family tree to help clinicians assess cancer risk

TRAINEE PRODUCT MANAGER  
*Redgate / 2015 - 2016*

Improved awareness and increased usage of a newly acquired database deployment tool.

- Developed in-product analytics functionality
- Coordinated content marketing
- Set development priorities through closely working with UX specialists

SOFTWARE ENGINEER  
*Redgate / 2014 - 2015*

Helped to solve SQL Server database deployment for users of the most popular release management tools.

DEVELOPER  
*Sungard / 2012 - 2014*

Contributed to a scalable and extensible framework used by a high-performance risk analytics service. Technical highlight was developing a tracing just-in-time compiler enabling clients to run C# financial models on GPUs.

FREELANCE DEVELOPER  
*Various / 2011 - 2012*

- Designed and implemented algorithms for human motion capture using low-cost inertial sensors, e.g. accelerometers and gyroscopes
- Developed a bespoke financial trading tool for an independent trader

## EDUCATION

### MSC IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING

*University of Oxford*  
2002 - 2003

Modules included mathematical modelling, numerical linear algebra, numerical optimisation and distributed computing for computational finance. Dissertation explored the numerical solution of magnetic fluid flow.

### BA IN MATHEMATICS *University of Cambridge* 1999 - 2002

Emphasis on applied mathematics, statistics and theoretical physics.

## INTERESTS

Rowing, coxing and coaching at my local rowing club.

## EXPERIENCE

### HIGH PERFORMANCE COMPUTING DEVELOPER

*Fidelity / 2010 - 2011*

A core member of the newly founded applied team. I was instrumental in designing, implementing and introducing quant-based methods to the wider organization.

I promoted components of agile development to the team. Particularly moving to a more iterative approach with more frequent stakeholder feedback.

### APPLICATION ENGINEER

*MathWorks / 2008 - 2010*

Worked directly with customers to understand their technical and business challenges. Acted as the main point of contact for customers evaluating and using MathWorks parallel computing tools in the UK.

- Analyzed users' problems to determine the best solution
- Developed demos and proofs of concept
- Prepared and delivered presentations to customers and prospects
- Provided feedback to the commercial and R&D organizations

### RESEARCH SCIENTIST

*QinetiQ / 2004 - 2008*

Contributed to a diverse range of projects:

- Assessing and improving warship stealth
- Sensor fusion - combining radar and infra-red sensor output to improve situational awareness
- Development of object tracking algorithms. Including a LIDAR simulator (C++), Markov Chain Monte Carlo tracking application (MATLAB) which I also modified to run on a cluster, and a Google Earth based visualization tool (Python)

### RESEARCH ASSISTANT

*Newcastle University / Summer 1998 & 1999*

Data analysis and modelling of a mass spectrometry experiment in Fortran. Joint author of a paper; 'Hyperfine-resolved spectrum of the molecular dication DCL2+'