MarcusMo

Contact

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Programming

C, C++

OpenMP, MPI
Nvidia CUDA

HTML5, CSS3
JavaScript, jQuery

Profile

Becoming a post-graduate allowed for further specialism in exciting areas such as high performance computing, data mining, and advanced numerical analysis; building upon the theoretical knowledge gained from studying Mathematics. Outside of academia, my passions involve experimenting with modern web technologies to develop performant and engaging experiences.

Education

2012–2013 **MSc Scientific Computing** The University of Warwick
Parallelisation of Simultaneous Eigenvector Computations
Explored parallelisation techniques with respect to finding newforms via simultaneous Hecke eigenspaces; relating to the construction and tabulation of elliptic curves. A multi-threaded strategy was built, with Boost libraries, on top of an existing open-source C++ serial implementation: Eclib.

2009–2012 **BSc Mathematics** The University of Warwick
First Class (Hons.)

2007–2009 **A-Level** Alcester Grammar School, Sixth Form
A-Level: AAA; AS-Level: A

2002–2007 **GCSE** St. Benedict's Catholic High School
AS-Level: A; GCSE: A*A*A*A*A*A*A*A*A; GNVQ: Distinction

Experience

2009–Present **LaTeX Tutorials** latextutorials.co.uk
Designer, Developer, Chief Editor
Developed an interactive tutorial website, by compiling a database of common mathematical statements, for others to learn the typesetting language. Later collaborated with peers to provide online documentation on LaTeX, with a focus on simplicity and low-entry level experience.
The site is used as an interactive teaching aid during seminars provided by the Warwick Maths Society.

2011–Present **Virtual Futures** virtualfutures.co.uk
Designer, Developer
Collaborated with organisers and artists to develop an online archive for past and future conferences; built with Wordpress.

2010–2012 **TEDxWarwick** tedxwarwick.co.uk
Media Team Member, Design Consultant
Designed yearly event motifs, programmes and other advertising materials. Developed the TEDxWarwick 2011 website, and Facebook marketing pages for TEDxWarwick 2012.

2011–2012 **Warwick Student Cinema**
Chief Editor
Organised and coordinated volunteers for copy-writing and graphics sourcing; contributing to the termly film programme. Provided training and support for QuarkXPress.

Interests

professional: software development, high performance computing, parallel programming, web development and performance **personal:** badminton, mathematics, UX design, Go, typography.