Personal Details[†]

Name:	Daniel Martin
Date of Birth:	11th July, 1985
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Qualifications

2007: **M.Phys (Hons) Physics with Theoretical Physics**, 2(i), The University of Manchester

2003: **4 A-Levels**: Maths(A), Physics(A), Biology(B), Chemistry(C)

2001: **11 GCSEs**

Skills

- **Programming:** I am proficient in the following languages:
  - C
  - C++
  - PHP
- **Web development:**
  - PHP
  - MySQL
  - Apache
  - (x)HTML
  - CSS
  - Javascript
  - Smarty - templating system
  - ADOdb - database abstraction layer

- **Packaging:**
  - The GNU Build System
  - NSIS - Nullsoft Scriptable Install System
- **Operating systems:**
  - GNU/Linux
  - Windows
- **Miscellaneous:**
  - Flex
  - Bison
  - LaTeX

[†]Some information has been removed from this version of my CV. For the full version please contact me through my website.

Employment

2005: **Teaching Assistant**, University of Manchester, Physics Department

Responsible for providing support to second year students studying the foundations of programming in C.

Skills demonstrated: C, Windows, Problem solving, Communication.

Experience

Physics simulations[1]

As a part of my degree I have used computers to simulate physical systems such as systems of coupled pendulums (an illustration of chaos within nature), the time-evolution of a single-particle wave-function in a quantum mechanical system, plasmas, and molecules (using Monte-Carlo (stochastic) methods). I wrote reports and gave presentations detailing the work done.
Skills demonstrated: C++, The GNU Build System, NSIS, LaTeX, GNU/Linux, Windows, Object-orientation, High-level numeracy, Technical writing, Problem solving, Communication.

Web development

I have created and run websites in the past and I am able to write well-formed (x)HTML and CSS. I have sound knowledge of the technologies behind modern web-development. I have written my own Content Management System in PHP and have experience with the Apache web-server and the MySQL database.
Skills demonstrated: PHP, MySQL, Apache, (x)HTML, CSS, Javascript, Smarty, ADOdb, GNU/Linux, Object-orientation, Problem solving.

Compiler/Interpreter Technologies

I have worked on a dual compiler-interpreter for a language of my own design. I have therefore gained experience in the technology behind compilers and interpreters such as lexical analysis, parsing (syntactic analysis) and semantic analysis.
Skills demonstrated: C++, Flex, Bison, The GNU Build System, GNU/Linux, Windows, Object-orientation, Problem solving.

University club captain/treasurer

I performed the combined role of captain and treasurer for a university martial arts club. I also took on the responsibility for other miscellaneous tasks for the club due to an incomplete committee.
Skills demonstrated: Leadership.

Manchester physics undergraduate mentoring scheme

I volunteered to take the role of 'mentor' to a group of first year students in my university's mentoring scheme. I provided support to enable them to complete a group project together.
Skills demonstrated: Communication, Leadership.

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[1]Documents, source-code, and windows binaries available at http://www.daniel-martin.co.uk/page/Physics/ .