

EDUCATION	MEng Computer Science (expected June 2013), Part I: 72.5%, Part II: (TBA) School of Electronics and Computer Science, Southampton University, UK
PROGRAMMING ASSIGNMENTS	In Progress <ul style="list-style-type: none">• (Java) Software Engineering Group Project; working in a small development team, using software design patterns and an agile development process to develop a lecturing tool for airport classification standards.• (Matlab) Protein Sub-classification; using artificial intelligence to sub-classify protein structures.• (MySQL and PHP) Database Interface; design a normalised MySQL database with a web interface.• (Java) Distributed Computing; various basic networking programs. Second Year <ul style="list-style-type: none">• (LISP; Scheme) OPM XML reader; would read an Object Process Methodology graph in a symbolic XML file and would perform various operations on it• (C) Memory Allocator; re-implemented malloc using a singly-linked list and first-fit allocation - approximately 97.2% efficient First Year <p>Programmed various applications in Java, including a Tetris clone, 3-bit Guitar Hero, a fractal viewer that used multi-threading to speed up rendering and crossword game that used an HTTP anagram service to give help to the user.</p>
SKILLS	Languages: Java, PHP, LISP (Scheme), C, AWK, CSH, Bash, MySQL, CSS, (x)HTML Design: Databases, object-orientated design patterns, classic algorithms Operating Systems: Linux (Ubuntu), Windows (XP, Vista, 7) Other: Version control, L ^A T _E X, time-complexity analysis
QUALIFICATIONS	A-Levels (2009): Mathematics - A, Computing - A, Physics - B AS-Levels (2008): English Language - A, Extended Project Qualification - A GCSEs (2007): 6 A grades, 3 B grades and 1 C grade Additional: AQA Baccalaureate (2009), Appointed-Person's First Aid (2010)
WORK EXPERIENCE	Buckle Consulting December 2010 - Present <i>Web Developer</i> <ul style="list-style-type: none">• Designed a MySQL database for broadwaterfinance.com and had regular contact with clients.• Main Achievements: Developed an application moderation system for escapethecity.org. This allowed them to improve the efficiency of their business and increase their worth by having a system which let them forward only quality applications to employers. IT Innovation (WeGov project - wegov-project.eu) July 2010 - September 2010 <i>Temporary Project Assistant</i> <ul style="list-style-type: none">• Applied various PageRank-esque algorithms to social networks, designed user interface mockups and provided an insight as to how various Social Networking APIs worked.• Main achievements: Produced a prototype in PHP and JSP as proof of concept and influenced what Twitter ranking algorithm the project should use.

School of Electronics and Computer Science March 2010 - June 2010, October 2010 - Present

Student Teaching and Computing Support Assistant

- Aided students with general queries from wireless and printing to programming-related ones. Also helped diagnose problems with personal machines.
- **Main achievements:** Helped others to achieve their goals through effective communication and by learning how the university infrastructure works.

Freelance Web Developer

June 2009 - July 2010

- Fulfilled contracts with clients using (x)HTML, CSS, PHP, jQuery and Drupal.
- **Main achievements:** Learnt about software licensing, copyrights and contracts, which I found was invaluable to covering myself legally.
- See nickhatter.co.uk/portfolio for my completed websites.

Specsavers Opticians

March 2008 - June 2009

Optical Assistant

- Used sales techniques with customers and carried out light repairs and adjustments to frames.
- **Main achievements:** Learnt how to use various optical pre-testing equipment in order to assist opticians and helped Specsavers maintain a professional image through good conduct, due care and excellent presentation skills.

POSITIONS OF RESPONSIBILITY

Webmaster 2010/2011, Southampton University Jiu Jitsu Club

- Maintained content for jitsu.susu.org
- Was accountable for e-mail correspondence with the club

Health and Safety Officer 2010/2011, Southampton University Jiu Jitsu Club

- Ensured first-aid kit contains suitable equipment for dealing with minor injuries
- Obtained appointed-person first aider qualification

Part I & II Computer Science Representative, Southampton University

- Represented the views of over 100 students fairly and accurately
- Had frequent contact with lecturers to resolve any learning difficulties facing students
- Attended Staff-Student Liason Committee meetings

EXTRA-CURRICULAR

I occasionally give tours in the School of Electronics and Computer Science to prospective undergraduate students. Last year I helped run an augmented reality workshop with young children at family event, Science Day. I currently hold an orange belt (2nd) in the Jiu-Jitsu style of Seishin Mizu Ryu Tatakai Jutsu (SMRTJ). I also play the guitar in a band and I am a featured blogger for my school (ecs.soton.ac.uk/blogs/nick_hatter.php).

REFEREES

AVAILABLE ON REQUEST