

Name: **James Hamilton**

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Education

Goldsmiths College, University of London

BSc Computer Science First Class Hons. Currently studying for MSci Computer Science.

Carshalton Boys Sports College

I attended Carshalton Boys Sports College, from September 1997 to June 2004, and received 10 A* - B GCSE qualifications and the following A Level and AS Level qualifications:

Subject	Grade
A Level ICT	B
A Level Physics	D
AS Level Pure Mathematics	D
AS Level Geography	B

Work Experience

Goldsmiths College (part-time, October 2007 - Present)

Teaching first year Java labs.

Lewisham College (part-time, October 2007 - Present)

Teaching the following subjects

- Internet Business Applications (Foundation Degree in Business Information Technology, First Year)
- IT Organisation and Deployment (Foundation Degree in Business Information Technology, Second Year)
- Visual Programming using VB .Net (National Diploma for IT Practitioners, Second Year)

Carshalton Boys Sports College (part-time, August 2003 - August 2007)

I started work as an ICT Technican providing assistance to the network manager, students and staff of this secondary school. This involved solving hardware and software problems, installing new systems and providing general support.

I then moved to the position of webmaster in June 2004 and developed their website using PHP/PostgreSQL/HTML/CSS running on Apache on a Red Hat Enterprise Linux server (server also maintained by me). The site contains a custom built content management system allowing teachers to edit pages, add news and pictures. It also contains a IT room booking system to allow teachers to book free IT rooms for classes. I liase with the staff at the school to make additions and update the site on their behalf. (The site has been redeveloped since I left).

Freelance web development work (part-time, 2006 - present)

- functionpix.com (current) - photography/journalism site which accepts user contributions and makes them available to the public/the media.
- wannabeeuk.com - converted a static HTML site into a dynamic PHP site with features such as page editing, user sign up, internal user admin system, profile editing, search, photo upload, web based messaging system, user favourites.
- www.viewdo.com - user-contributed how-to videos. I found a security flaw in the download page and offered assistance, and worked with the site owner to improve and develop new features.
- I co-worked on an internal project for Saatchi & Saatchi which consisted of an image gallery website capable of accepting user contributions - using PHP/MySQL and Flash uploader.
- Montrose House Website - subcontracted by IT firm Kalms Associates to design this web site advertising a holiday home.
- www.kalms-associates.com - simple web site

Private Tuition

I have given lessons on computing subjects to second and third year individuals and groups.

Programme Monitoring Representative

During my second and third year at Goldsmiths College, I was a programme monitoring representative for my degree programme.

Other Information

Technical Experience

- Languages: PHP, Java, Javascript, ActionScript, SQL, XML, HTML, CSS.
- Applications: Netbeans, Fireworks, Flash, Dreamweaver, phpMyAdmin, phpPgAdmin, Apache, OpenOffice, Firefox, Vi, TextPad, Microsoft Office
- Database Systems: PostgreSQL, MySQL
- Platforms: Linux (RHEL, Fedora, Ubuntu), Windows (98, 2000, XP) & Mac OS X 10.5
- General programming design patterns, including Object Oriented Programming, Database development, AJAX techniques.
- Prior experience with, and understanding of: XSLT, XPath, Visual Basic 6 & .Net, Prolog

MSci Project

Investigation of Tools for the Static Analysis and Transformation of Java 1.5 Programs

BSc Project

Artificial Ants: Simulating Ant Behaviour and Investigating Applications In Computing. Grade 91%.

Ants are excellent route finders, with the ability to find the shortest path between their nest and a food source, by using pheromone trail clues to organize themselves collectively. My project introduces ant behaviour by the implementation of an ant simulation, and finally applies lessons learned from the simulation to graph and network routing problems.

Courses studied/results achieved

Year	Course	Grade
3	Data Compression	71.04
3	The Semantic Web	69.32
3	Logic Programming	69.40
3	Language Design & Implementation	60.60
3	Advanced Databases: Data Mining	66.54
3	Web Site Design & Implementation	93.04
2	Graphical OOP and Network Programming using Java	82.50
2	Data Communications and Algorithms	66.20
2	Software Engineering and Research Methods	60.68
2	Database Systems	74.55
1	Mathematics for Computing	71.00
1	Information Systems	60.00
1	Introduction to OOP	92.00
1	Introduction to Internet Computing	75.00

Previously completed coursework examples

- Audio Player - Featuring MP3 playback using the basic player library from javazoom.net, with full controls, playlist management and album art.
- Solitaire
- Robot simulation - using UDP in Java, with a control application on one computer and a 'robot' on another.
- Chat client - similar to the robot.
- Graphical diary application
- Implementation of the LZW algorithm in PHP - my lecturer wishes to use this as an example in next year's course.
- Simple Web Browser
- Software Engineering group project - design a Space Invaders game.

Languages

Basic Arabic - Reading, Writing and Speaking

References

Simon Barber (Headteacher / Employer)

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