

Sarah Lowman

PERSONAL DETAILS

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EDUCATION

University of Strathclyde	2009 - 2010	Forensic Informatics MSc (to be completed)
University of Edinburgh	2005 - 2009	Computer Science BSc First class (Hons)
Wimbledon School of Art	2004 - 2005	BTEC Diploma in Art Foundation – Fine Art (Merit & Distinction)
Tiffin Girls' School	1997 - 2004	A-levels: mathematics (A), computing (A) and art (A) AS-Levels: mathematics (A), computing (A), art (A), biology (A) and general studies (A)

WORK EXPERIENCE

Sept 2006 – Jan 2009 **Edinburgh University Informatics department demonstrator**

This involved taking prospective students around the university and manning the informatics stall on open days; going to secondary schools and helping give presentations about the department and helping out with robotics demonstrations.

This job improved my confidence in public speaking and how to market informatics to a wide variety of people.

June 2008 – Sept 2008 **Summer Internship with Barclays Capital**

Worked in the Fixed Income Technology department as part of a 10 week internship program. I created a well-received Python web portal for traders to view statistics on their clients' orders.

I gained valuable insight into the financial world and experience in programming, web design and databases. I developed my personal skills through meetings with managing directors, networking events and giving presentations of my work. I also gained experience in working with a team in a very hectic environment.

ACHIEVEMENTS

Academic	Achieved one of the highest grades in Informatics 1a (1 st year) and Informatics 2 (2 nd year). Gained an Academic Scholarship with Barclays Capital . Was manager of the 3 rd year System Design Project team which achieved the highest grade. Our team won the Citigroup Prize and the IBM prize for best System Design Group Project .
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Positions

Elected **School representative** in the Edinburgh University Student Association for the school of informatics for 2008-2009.

Third year undergraduate class representative for informatics and **class representative** for Electronics 1. **Class representative** for Forensic Informatics masters course.

Also was a member of the Informatics **Student Management Committee** which looks after the communal areas in the Informatics department.

Elected **IT Prefect** in Upper 6th at secondary school.

SKILLS

Computer Skills

PC literate in Microsoft products including Word, Excel and PowerPoint

Very experienced in **Windows XP**, has working knowledge of **Vista** and **Windows 7**. Some experience of **Linux** and **Mac OSX**

Digital Forensics

Familiar with **ACPO guidelines** and the steps needed to conduct a digital investigation. Has experience in creating **forensically sound hard drive images** and has used tools such as **Autopsy**. Detailed knowledge of **web browser history forensics**.

Programming

Proficient in the computer programming languages **Java** and **Python** and web based languages **XHTML**, **CSS** and **PHP**. Knows some MIPS assembly, C, Matlab and Delphi. Is familiar with relational database design and the database language of **SQL**.

Other Skills

Can speak very basic German, Japanese and Flemish/Dutch

Paints well and has a good eye for design. Gets commissioned for paintings, templates and websites.

PROJECTS

Master's Thesis

My thesis will be on **web history visualisation for forensic investigations**. Internet browsing history can be vital to investigations and yet is currently only presented in the form of vast spreadsheets and lists of URLs. Visualisations of web data can allow for anomalies and patterns to be spotted easily and domain-specific questions to be asked.

Final year honours project

My final year honours project was developing a **dynamic content management web application for organising academic seminars**. The website automates a lot of the work a seminar organiser has to do, such as archiving old seminars and sending out reminder emails. The system provides means to schedule speakers and maintain the seminar website. The project achieved a high grade of 80% (First).

PremiereHub website

www.premierehub.com is a website I wrote and maintain that currently attracts up to 3000 visitors a month. The site is about film premieres in London. It documents past premieres, predicts actor and celebrity attendance for future premieres and supplies useful information for anyone wanting to go to a premiere. Through the site I have been invited to several premieres including an exclusive press screening of Pixar's Ratatouille.

INTERESTS & HOBBIES

Hobbies

Keen on playing **tennis**, **squash**, **badminton** and **table tennis**.

Paints, **sketches** and does **arts & crafts** in free time. Very keen on **designing websites**.

Societies & clubs

Was part of the **committee** for the **Edinburgh Hoppers Society**. This is a support group for girls in the Informatics department which runs events on careers and social lab lunches. Helped with management of such events.

Competitions & conventions

Competed in the **2008 IBM University Challenge finals**.

Attended the first **Computer Science 2008: student research conference** in Cambridge, sponsored by Microsoft and Google

