

D.S. Heath C.V. as of September 2009

PERSONAL

Full Name **DAVID STEVEN HEATH**
Date of Birth 1st August 1987
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Marital Status Single
Transport Full Driving Licence - Car Owner

EDUCATION

Attended King Edward VI Aston Grammar School, Birmingham, obtaining G.C.S.E. passes to –

Mathematics	A*	Physics	A	Geography	A
Chemistry	A	Biology	B	Spanish	B
German	B	Drama	B	English Lang	B
R.E.	C	English Lit	C	IT	C
Design & Tech	D				

Continued education in the King Edward VI Aston Sixth Form, gaining G.C.E. 'A' Level passes in August 2005 to

Mathematics	A	Physics	A
Computer Studies	B	Drama (AS)	C

Recently completed a 3 year degree course in Computer Science and Software Engineering at the University of Birmingham, Edgbaston, obtaining – BEng (hons) 2.ii

Currently studying towards an MSc Internet Software Systems postgraduate degree, which involves studying modules based around internet systems, and modules designed towards security (Cryptography, Computer/Network Security, Secure Programming).

I achieved a 74.5% average for my exams, and am currently writing a software project which will make up the remainder of my grade.

UNIVERSITY

During my fourth year at university, I can look back satisfied that I worked to a high standard throughout the year, and achieved the exam results that I hoped for and deserved. With just a project to write (worth one third of my mark), this high work level will continue for the duration of the course, and I am hoping to achieve at least a pass with merit.

My attention to detail is something that I am particularly proud of, doing my utmost to ensure that all information I used in any part of my education was accurate, and this is a quality that I will carry forward with me into my chosen career. I have done my very best to ensure that I am prepared for any task that may present itself, although this is not always possible and I have learnt how to think on my feet in times of need.

Although a large number quantity of modules are taken during university life, a select few have stood out as being particularly enjoyable and interesting –

<ul style="list-style-type: none">• Programming in C/C++• Software Engineering• Natural Language Processing• Computer hardware internals• Communication Skills	<ul style="list-style-type: none">• Cryptography• Computer Security• Internet Workshop• Computer Networks• Distributed Systems
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Whilst at university, I participated in the student lifestyle to the full, and as president of the Computer Science Society, I particularly enjoyed organising and participating in activities for all students within the department, such as bowling trips, theme park visits and paint-balling.

TECHNICAL SKILLS

As part of the my GCE 'A' level work, and subsequent university degree course, I have acquired and utilised the following technical skills –

Windows

- Fully conversant with Microsoft operating systems (XP/Vista)

Microsoft Office

- Have utilised Microsoft Office Professional for the last 6 years, and as such am very familiar and comfortable with the use of Word, Excel, Access and PowerPoint

Programming Languages

- **Java** – Using Netbeans and Eclipse IDE, and a wide range of the web technologies offered through the Java libraries. In particular this year, Wicket, Spring, and Hibernate technologies.
- **C/C++/LPC** King Edward VI Aston – my final year project was coded in C, and I have studied C/C++ during modules in my third year. Also have understanding of Visual C++.
- **SQL** – Have studied databases as a third year module, which involved extensive SQL coding, creating entity relationship diagrams, and Relational Algebra. Recently learnt to use HQL (Hibernate Query Language) for database queries.
- **Prolog** – Studied as a module during second year, learning the basics of the language and creating simple programs
- **JSP** – Studied JSP this year in an Internet Workshop module
- **(X)HTML/XML** – Studied HTML/XML in detail this year, and my final project is using HTML, XML and XSL Transformations, and Spring/Wicket/Hibernate technologies.
- **LaTeX** – Advanced text editing, used to write my project thesis.

Web Design

- This subject formed part of my degree course, and as such learned and applied techniques on specific course exercises.
- Used Java Netbeans IDE to create a thread pool related booking system for 2nd year course work.
- Good working knowledge of HTML/XML, and am currently learning CSS for my MSc project

Program Development

- Have written a number of application programs in JAVA (1.4-1.6) as well as C/C++ and basic programs in Prolog
- As an example, have utilised the following methods and techniques –
 - Database creation involving synchronized objects and Hash tables
 - Automatic text parsing for large files (500Mb+)
 - NLP techniques such as n-gram models
 - Kernel programming in C
 - XML data parsing
- For over a year, held a position as a volunteer coder to help create and maintain an online game (Discworld MUD) with over 5000 active players. Resigned from this due to time constraints at university, but have since been re-hired. Involved coding in LPC, corroborating with a team based in a variety of time zones and ensuring all aspects of code were fully tested before release. Recently completed a project of updating/bug-fixing code originally written in 1998, which had been considered obsolete since 2001.

Networking

- Again as part of my degree course, have studied the module “Distributed Systems” and “Computer Networks”, which has covered a number of networking principles including –
 - Synchronization (PC's, Servers, Clocks, etc)
 - Thread Pools (Creation and use of)
 - Security Issues (Public/private key, private/private key)
 - Router protocols (Topology and Default)
 - Network layers

Linux/Unix

- Have had considerable experience of both Linux and Unix in my time at university, and as such have a good working knowledge in using the associated command line system.

OTHER CORE COMPETENCIES

- Communication skills**
- My current part-time employment (Ramada Hotels) involves significant 'face to face' time with customers on a day to day basis. In my role, it puts me as the first and only point of contact, and so customers' needs and wants must be met on every occasion wherever possible.
 - Have had an active role in the university Guild Council, regularly voting on motions and being involved in discussions on guild policy
 - As part of my studies I have given presentations on behalf of myself and as a member of a team, and am confident in the delivery of competent and professional presentations

- Analytical skills**
- As part of degree course, learned and applied the fundamentals of –
 - Identifying and documenting requirements
 - Functional gap analysis
 - Solution design
 - Database design (logical/physical)
 - Development
 - Unit test planning and execution
 - System testing
 - Now wish to extend my knowledge and expertise in these areas in order to become a highly competent IT professional

- Team-working**
- Have completed several team based projects throughout my time of study at university, in particular team presentations and team project building, in which we built a computer based 'teaching assistant' for the internal workings of the ALU (a component of a CPU).
 - Equally comfortable working in either a team environment or independently, either way ensuring that the task at hand is completed in a reliable and punctual manner
 - Have held committee positions on 3 societies during my time at university (secretary of circus, A-team captain for bridge, and president of the departmental society). Am willing to listen to others before making team decisions, but can also make decisions when empowered to do so

- Flexibility-
Adaptability**
- Thrive under pressure
 - Flexible and adaptable on both the type, and location of work
 - Excellent when working to deadlines
 - Self-motivated and confident
 - Enjoys learning new skills, and can adapt quickly and competently
 - Willing to travel when necessary

EMPLOYMENT HISTORY

September 2003-
Present

I joined the company as a part time porter during my A-levels, and have continued to work there throughout my university studies. Having completed my degree course, I have worked part-time within Ramada Hotels, quickly self-teaching myself their computer system before becoming completely trained as a member of the reception team.

Ramada Hotels
Birmingham

Since university began I have returned each long holiday to the hotel for employment, and in the many years I have spent there have gained valuable experience in every area of the hotel. I am confident in my ability to assist in any area of the hotel that requires assistance.

I have developed excellent customer service skills, frequently being the point of contact for guests to direct both queries and complaints (as and when these arise).

INTERESTS

- Football** Keen footballer, play for enjoyment and have been a member of departmental 6-a-side and 11-a-side teams during time at university
- Squash** Have been playing squash for approximately 8 years, being a member of Sutton squash club prior to my university course, and have continued with my squash throughout
- Bridge** Have been playing bridge for almost 5 years and have competed in many serious tournaments, most recently the Portland Bowl and numerous national pair's tournaments.
- Cinema** Enjoy keeping up with the latest film releases and visiting the cinema to view the same on a regular basis

REFERENCES

References if required may be obtained from -

Current Employers :

Donna Taylor
Ramada Hotel & Resort Birmingham
Sutton Coldfield
Birmingham
B76 1LH

University:

Alan Sexton
School of Computer Science
The University of Birmingham
Edgbaston
B15 2TT

Personal:

Pippa Cope
1 Geoffrey Close
Walmley
Sutton Coldfield
Birmingham
B76

SPECIFIC GRADES

<u>YEAR TAKEN</u>	<u>MODULE NAME</u>	<u>GRADE ACHIEVED</u>
2005	MoMD) The Cosmic Connection	26
	(MoMD) Quarks & Leptons	26
	Intro to Soft Eng	62
	Design & Media Team	61
	Foundations of Computer Science	55
	Introduction to AI	52
	Mathematics for Computer Science	58
	Software Workshop 1	67
2006	Software Workshop Prolog	70
	Models of Computation	56
	Software Workshop Team Java	60
	Software Engineering	49
	Communication Skills & Prof Issues	70
	Software System Components 2	57
	Computer Systems + Architecture	44
	Logic for Comp Science	49
Software Sys Components 1	46	
2007	Commercial Programming	52
	Software Project	50
	Databases	53
	Principles of Programming Languages	51
	Compilers & Language	45
	Distributed Systems	67
	Natural Language Processes & Applications	46
	Operating Systems	47
Systems Programming in C/C++	75	
2008	Exam results:	
	Internet Workshop	81%
	Cryptography	86%
	Component-based Software Engineering	62%
	Secure Programming	87%
	Computer Security	83%
	Network Security	65%
	Computer Networks	73%
	Graphics 2	48%
Virtual Reality	68%	
Software Project	-	