Alexander John Toop

Profile

Competent, enthusiastic and **approachable**: I am a driven individual, keen to make a positive contribution to any situation. My passion to move forward and achieve results means that I often think out of the box, to innovate and take the best path forward.

Achievements and Key Skills

Teamwork My role in the Aberystwyth University Staff Student Consultative

Committee involved me in **periodic meetings, peer interactions and official discussions** to improve aspects of my course. This has helped

me resolve complex issues as a member of a team.

Programming I have experience programming in; Visual Basic, C, Haskell, Java and

JavaScript. I am also confident with the software development life cycle

and have applied this in commercial situations.

Problem Solving Experience studying Mathematics and Computing has given me an

efficient and effective attitude to creating problem solutions. I am competent at looking **methodically** through situations and **resolving**

them using my **experience** and **logic**.

Responsibility Being President of the University Karate Club has involved many

responsibilities such as; **documentation**, **organisation** and **decision making**. Teaching at the club has also resulted in me developing skills in

planning and **communicating** to large groups.

Personal Projects

Xcode iOS App Development

Currently developing an iOS application designed to act as an anonymised local area posting board.

Website Development

Have developed from scratch my own personal website to act as an online portfolio and blogging spot. Reference: alexandertoop.com

Arduino Development

Have experience placing my Arduino into different hardware configurations and programming it to interact directly with hardware such as serial clock circuits.

Server Maintenance and Access

Maintained and configured Linux and Red Hat operating systems remotely for personal projects such as hosting websites and VOIP clients.

Education and Qualifications

2015 - Present: Studying Software Engineering BEng at Aberystwyth University. (With Integrated Industrial Year.) Relevant Modules:

Introduction to Programming: Result 76%

Taught: C with elements of C++, defensive procedural programming theory, use of Arduinos, testing and the enhancement of programs.

Introduction to Computer Hardware, Operating Systems and UNIX Tools: Result 86%

Taught: UNIX operating systems, graphical and command line interfaces, bash scripting, advanced searching and LaTeX.

Web Development Tools: Result 81%

Taught: Web design concepts, HTML5 and CSS3. Good standards were enforced and put into practise.

Programming Using an Object-Oriented Language: Result 75%

Taught: Use of the object-oriented paradigm, Java programming language and the use of Unified Modelling Language.

Programs and Solutions: Result 86%

Taught: Analysis of algorithms, searching and sorting, matrix operations, recursion and computability.

2013 - 2015: Attended Hereford Sixth Form College. Achieved BBBD at A-Level in Mathematics, Computing, General Studies and Physics respectively. Relevant A-Levels: *Mathematics A-Level*: **Grade B**

Provided me with key skills that have made me good at breaking down problems and deducing ways to solve them.

Computing A-Level: Grade B

The Computing course introduced me to both the practical and the theoretical aspects of programming.

2008 - 2013: Achieved Distinction, 6 A's and 4 B's at GCSE. Including Maths and English.

Previous Employment and Work Experience

Summer 2015: (Full-Time) Medical Cell Administration Assistant Dawson Medical Ltd. – Employer: Dave Howell

I was **responsible** for organising and cataloguing thousands of medical samples. I worked **independently** to develop a system for the identification and location of catalogued samples with automatic identification of samples for disposal. My responsibilities subsequently included **training** key members of the medical team to use my system. This taught me to take ownership and responsibility for my work.

July 2014: (2 Weeks Work Experience) BEACON Bio-Refining Project
Institute of Biological Environmental and Rural Sciences – Manager: John Norris
Maintained Linux servers, helped troubleshoot errors and assisted in creating a
website view of employee data using HTML and Ruby. Communication was
paramount with BEACON staff members to determine software requirements and
designing solutions to fit within current system.

Hobbies and Interests

I enjoy developing new skills, participating in teamwork orientated sports and long distance running. I also practise Shotokan Karate in my spare time at both the University and town club, helping teach both children and adults whilst developing my own skills.

References

Nigel William Hardy (Personal Tutor) Aberystwyth University, Llandinum Building, Penglais, Aberystwyth, Dyfed SY23 3DB nwh@aber.ac.uk Dave Howell (Operations Director)
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