Jack Walker

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Profile

I am a computer science student with strong interpersonal skills and a desire to excel in the computing field. Responsible and reliable, I always aspire to fulfil a task to the highest standard. I have experience in management, with an emphasis on team leading and organisation.

Experience

As a final year Computer Science BSc student at Staffordshire University, I have gained experience in a variety of areas in the computing field. I have thoroughly enjoyed my time studying on this course and have strived to achieve the highest marks available in each module. I have taken advantage of any opportunities to learn that have been presented to me, studying extra, non course-specific modules alongside my own. I excelled in the first and second years and I am currently on track for a first-class degree.

In addition to my degree course, I have attended and participated in a variety of events and conventions, including VMWorld 2020, AWS Innovate Machine Learning, and Microsoft Ignite. I have also completed many online activities and courses for a variety of languages on the Hyperskill and SoloLearn platforms.

Current Role

My current role is as part time management in a retail environment. For this, I am required to organise tasks and assign job roles to staff, ensure health and safety standards are being followed, cash up tills, and delivery a high standard of customer service.

I have held this position since May 2019, prior to which I worked for the same company for 3 years. I was promoted from sales assistant upon recommendation of the store manager due to the skills that I had displayed in my previous position and my ability to work flexibly.

Education

BSc Computer Science at Staffordshire University   September 2018 – Present

Modules taken/ Skills gained (not all modules taken are listed):

- **Introduction to software development** – Introduced me to a variety of key concepts and models that underpin software engineering and gave me the opportunity to apply many of these. This module also taught me Java and introduced me to object-oriented programming.
- **Hardware and computer systems** – Improved my knowledge of computer hardware and low-level theory. I learnt the basics of C programming following the C90 standard and produced several console applications utilising C.
- **Structured systems analysis and design** – Improved my database design to be more effective and secure. I also learnt how to utilise several UML diagrams to plan projects.
- **Advanced programming languages for computer systems** – Built upon HCS, training me to apply real time, safety critical system concepts, through production of an ANSI C90 application to run on a microcontroller that simulates a heart rate monitor.

- **Systems programming with C/C++** - I learnt C++ to a competent level. This module additionally taught me multithreading and memory sharing concepts in C and C++.
- **Web and mobile application development** – Introduced me to web application production using Java server faces. This is where I learnt Android application development using Java, producing an application that utilised a RESTful web service produced using Java.
- **Emerging technologies and concepts** – This module allowed me to develop my writing skills to be able to write a fully cited, standardised research paper. In this case, I produced a paper adhering to IEEE standards.
- **Mobile application development** – Introduced mobile development using Kotlin, PWA development. Prior to this module, I had learnt Kotlin as a general-purpose language via Hyperskill. This module allowed me to apply this knowledge to Android application development. Furthermore, I implemented a PWA using HTML, CSS and JavaScript.
- **Real time safety critical systems** – Continuation of APLCS in which my ability to produce a real time embedded system was tested using ANSI C90 to program a microcontroller. I also produced a real time application using the graphical language LabView.
- **Final Year Project** – For my project, I am producing a music genre classification system using machine learning that I will host in the cloud. So far for this project, I have expanded my knowledge on machine learning, covering a variety of algorithms in depth and implementing a variety of models, with tuned hyperparameters. I have produced a critical literature review for a part of this assignment, which has improved my professional writing skills.

Moorlands Sixth Form College:

3 A levels: Mathematics, Computer Science and Business Studies

Moorside High School:

13 GCSEs including Maths, English, Separate Sciences, and IT

Applicable Skills
Organisational skills. Balancing work and university assignments has allowed me to develop my time management skills to identify and prioritise tasks to achieve the best overall outcome.

Team working and communication skills. Through working in a fast-paced retail environment, both as part of and a leader of a team, I have developed a strong set of interpersonal skills that have aided me in both the workplace and at university, participating in group-based activities.

Technical Skills
Proficient knowledge of C, Java, Kotlin and Python.

Strong understanding of both hardware and software concepts that underpin most systems, including architecture and software interfacing.

Understanding of design diagrams and pseudocode to produce a solution in a variety of languages.

Able to produce informative documentation, with full testing plans and data.

Achievements and Interests
- Full, clean driving licence (Car owner)
- Basic understanding of German, spoken and written.

References available upon request.