Callum Apps

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**BSc Computer Science**

My early experiences building PCs stoked my fascination with hardware intricacies and the underlying software, fuelling my curiosity for source code behind applications. This enthusiasm and curiosity led me to the very privileged opportunity of attending work experience at BAE Systems, where I gained valuable insights into their computing operations. I witnessed first-hand how they develop software to ensure safety and reliability, with a heavy reliance on computing and artificial intelligence. This experience provided me with a practical glimpse into the demands of a career in programming. My current goal is to achieve a 1st-Class BSc degree, which I am on track to achieve.

**KEY SKILLS**

|  |  |  |
| --- | --- | --- |
| * Some Experience in C Programming
* Experience in Team Skills
 | * Android Development
* Experience in Customer Service
 | * Some Experience in Java
* Computer Diagnosing
 |
| * Extensive Debugging
 | * Consistent Academic Attainment
 | * C++ platform games
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**EDUCATION**

**BSc Computer Science with Artificial Intelligence | University of Reading | Sept 2021** — **Present**

2nd Year: 79% — Expected High 1st class

**Year 3 Modules:** Artificial Intelligence | Distributed Systems and Parallel Computing | Data Science Algorithms and Tools | Data Integration and Visualisation | Image Analysis | Individual Project | Social, Legal and Ethical Aspects of Computing | Text Mining and Natural Language Processing | Virtual Reality

**Year 2 Modules:** Algorithms and Operating Systems (82%) | Computer Architecture and Networking (81%) | Compilers (82%) | Databases and Information Security (75%) | Programming in Java (91%) | Programming in Python for Data Science (69%) | Service-Oriented System Applications (68%) | Software System Design with UML (65%)

**Undergraduate Dissertation:** Multiplayer networked game using Java and C. This project enables players to connect across the internet on different devices for an interactive gaming experience.

**Fulston Manor Sixth Form A-Levels and Westlands School GCSEs | Sept 2014 —** **Aug 2021**

A-Levels: A\*-A: Computer Science, BTEC Level 3 Certificate in Information Technology.

7 GCSEs: 7-6: English Literature, English Language, French, Geography, Combined Science, Mathematics, Computer Science

**WORK EXPERIENCE**

**IT Service Assistant | University of Reading | Sept 2023 — Present**

In my current role, I provide IT support for university students and staff. This includes a range of tasks, from assisting with basic needs like password resets, to tackling more intricate challenges, such as troubleshooting Windows issues and facilitating tasks like SSH connections to servers or problem resolution via Windows PowerShell or Linux terminal. My position allows me to apply my technical knowledge and problem-solving skills to address a diverse set of IT needs.

**Games Functionality Tester, HCL/Microsoft | Reading | Sept 2022 — Sept 2023**

During my time at HCL/Microsoft, I had the crucial role of testing pre-release titles. This involved extensive testing to identify and report any bugs I encounter throughout the title, as well as documenting my findings in detailed reports. I gained proficiency in using Microsoft Excel for organising and tracking testing processes. This experience enhanced my skills in report writing and contributed to my knowledge in software quality assurance.

Stock Associate | Hollister | Dec 2021 — Sept 2022

I oversaw the store's backend operations, which encompassed tasks like stock management, receiving and processing new shipments, and fulfilling various customer size requests. My efficiency in executing these responsibilities is required in ensuring satisfaction.

**Crew Member | McDonalds | Sept 2019 — Aug 2021**

Concurrent with my sixth form studies, I had a role as a Crew Member at McDonalds, my responsibilities revolved around assisting customers and food production. I took pleasure in engaging with customers to ensure their orders meet their satisfaction.

**IT SKILLS**

C++ *Java  Android Development  Web Development  Python  Game Development  Office 365*

* Proficient in using various integrated development environments (IDEs), including Visual Studio, IntelliJ, and Android Studio.
* Skilled in utilizing Anaconda software, particularly Jupyter and Spyder, for text-as-data analysis in Python. Also experienced in applying machine learning techniques to validate sentiment analysis models.
* In the process of completing a Microsoft C# Development certification.
* Previous experience delivering technical analytics and technical problem solving at IT Service support.

**PAST PROJECTS**

Random Maze Generation | *Android Application*  *Java | JavaFX | Andorid Studio*

* Created a Randomly Generated Maze game in **Java** for Smartphones using **Android Studio**
* Implemented an algorithm that ensures that there is always a path for the user to reach the end of the maze.
* Demonstrated to Professor and achieved a score of 80%

Personal Portfolio Website | *Website*  *HTML | CSS*

* Engineered my portfolio website using a mixture of HTML and CSS
* Hosted on AWS Amplify to ensure robust, seamless deployment
* Engineered a 2D Drone Simulation in Java, showcasing basic object-oriented programming, receiving a perfect 100% grade.
* Utilized Python and MATLAB for image enhancement and data visualisation via machine learning techniques.
* Creation of SQL interfaces to interpret data for previous coursework’s.
* Implementation of further functionality to a C++ skeleton project in first year of university.
* Creation of a Unity Virtual World Project, focusing on 3D modelling and interactive elements using C#.

**FURTHER WRITING AND KEY SKILLS**

Through my prior work experiences, I have refined my team building abilities, working well with colleagues in a variety of roles and responsibilities to accomplish shared objectives. I collaborate with a team in my present role as an IT service assistant at the University of Reading to offer staff and students complete IT assistance and diagnose issues correctly to ensure they are resolved. As a Games Functionality Tester at HCL/Microsoft, my job necessitated tight cooperation with other testers to improve our group's problem-solving and ensure each test case is complete. Similarly, working as a Crew Member at McDonald's and a Stock Associate at Hollister taught me the value of cooperation and communication in ensuring both customer satisfaction.

In addition to this I am consistently achieving high grades in my modules showing my determination and dedication to ensuring that each task is done to the best of my ability, whilst also attempting projects on the side, such as creating my own website using Html/CSS, various different projects in a variety of languages, diagnosing of people’s PCs and different certification programs to continuously making attempts to enhance my knowledge and skills.

**HOBBIES**

|  |  |  |
| --- | --- | --- |
| * Building friends and family’s Personal Computers
* Computer Diagnosing
 | * Exercising at local gym
* Travelling
 | * Skiing
* Advancing knowledge through various courses/exercises.
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**References Available Upon Request**