

**Alexander Luke Spedding**

DOB: 31/08/1993

**University Address**

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**Education**

**2011 - Present** BSc in Computer Science, University of Reading (Predicted First)

Second Year results: Compilers 92%, Computer Architecture 92%, Machine Intelligence 90%, Java 85%, Operating Systems 83%, Neural Networks 82%, Algorithms 80%, Databases 79%, Advanced Databases 76%, Project Management 56%

First Year results: Programming 87%, Software Engineering 66%, Engineering Maths 73%, Fundamentals of Computing 86%, Codes and Code Breaking 92%, Computer Applications 82%

**2009 - 2011** A Levels, Dauntseys School

Mathematics A\*, Physics A, ICT A, Economics b

**2004 - 2009** 9 GCSEs obtained (including Mathematics and English Language), Dauntseys School  
2 A\* grades, 6 A grades, 2 B grades

**Employment**

**October 2013 - Present** Teaching Assistant, University of Reading

This position involved helping students who were taking the Java module in the lab sessions. This meant I had to answer any queries they had about the work they were doing.

**April 2012 - April 2013** Software Developer, iPro Software

The Old Police House, Sandy Lane, Chippenham, Wiltshire, SN15 2PZ

iPro Software produces a solution for customers renting properties for holidaymakers. During my employment here, I worked on a variety of projects utilising different skills.

*iPro Booking Engine*

I actively developed improvements and bug fixes to iPro's booking engine. A major project of this includes a module which allows clients to record any Property Management tasks they have in relation to their properties.

*Holiday Lettings API Integration*

I developed software which integrates with iPro's booking engine, compiles information from client's websites and the database and then sends a feed to Holiday Lettings to update details of properties' availability dates, rates and details.

*uWebShop Extension*

I undertook the project of extending uWebShop (a closed source Umbraco add-on) to customise it to meet a client's requirements. This required multiple workarounds due to uWebShop being a closed source extension and the client's requirements being very specific.

Skills: C#, VB.Net, Subversion, T-SQL, ASP.Net, Javascript, XML, SOAP, Umbraco

### **Related Projects**

My GitHub account is available at <http://www.github.com> which contains my open source projects.

Untitled: A game similar to Guitar Hero and Tap Tap Revenge for Android phones, currently in progress.

Esper Compiler: A compiler written in Java using ANTLR to generate the grammar. Compiles a language of my own devising, Esper, into C code and Python code.

A Hero's Quest: An open source game written in C++ using the Windows API to display the graphics on the console. Source code available on my GitHub account.

### **Technical Skills**

Applications: Microsoft Visual Studio, Eclipse, Microsoft Office Suite, Microsoft SQL Management Studio, FileZilla, Vim, Version Control (Subversion/Git), gcc

Programming Languages/APIs: C, C++, Java, C#, ASP.NET, Javascript, HTML, T<sub>E</sub>X, Visual Basic, SQL (Oracle), T-SQL (Microsoft), Android API, Windows Forms, Lastfm API, LWJGL, Swing, Irrlicht, DarkGDK, LibGDX, OpenCV, Unity3D

### **General Skills**

Teamwork: Having worked in a small company as a Software Developer, I have experience working and communicating with people of varying skillsets. This involves explaining technical details in a higher level and converting high level requirements into low level technical details.

Leadership: I was the team leader in a large group project in the second year of my degree. This involved organising the group to meet up, assign the members work and ensure they did the work. I also had to give warnings to certain members who weren't participating fully.

Organisation: As well as managing a group, organisation was also required at my employment where I would be working on multiple projects at once so I was having to change my focus to another project quickly.

Communication: During my employment as well as having to communicate with colleagues, there were times where I would have to communicate with the customers. This involved demonstrating to them the projects I had created, and to also understand what they wanted to be added or improved to the project.

Full clean British Driving Licence

References available on request