

ANDREW HUNTER BSc

18 Warren Close, Elmswell,
Bury St. Edmunds, Suffolk, IP30 9DS

(01359) 240818 (07866) 494628
andrew@software-tamed.co.uk
<http://www.software-tamed.co.uk>

06 June 2005

Summary

An independent software developer who has developed for commercial companies, the NHS and worked on several open-source projects. Experienced with a wide range of different technologies.

Skills

General

- Experienced in a wide range of general and special purpose programming languages, including C, C++, Java, C#, Perl, etc.
- Experience with web server software, including IIS and Apache.
- Experience designing, developing and deploying websites.
- Experience with developing cryptographic software
- Experience with telecommunications software, in particular H323 and Voice-over-IP.
- Experience with XML and XSLT.
- Experience with version control software (CVS and Subversion).
- Experience with graphics technologies, in particular OpenGL.
- I have an interest in programming language design/implementation and user interface design.

Microsoft

I am an MSDN subscriber, and have access to most of Microsoft's development systems.

- Experience with developing DCOM applications with ATL.
- Experience with .NET technologies: Windows Forms, ASP.NET, etc.
- Experience developing IIS applications using .NET or ASP.
- Experience with developing for SQL server.

Other systems

I develop and maintain some Mac OS X applications in my spare time. I have also written applications for Linux and Palm OS.

- Experience with developing for Cocoa and Carbon on OS X.
- Experience with developing Palm OS applications for data input, driving extra hardware and cryptography: usually with the GNU prc-tools compiler, but I have developed with CodeWarrior in the past.
- Experience with Linux/UNIX technologies - developed with MySQL, Qt, gtk+, raw X11, shell scripts, etc.
- Experience with developing assembly-level code, particularly ARM and 68000.

Independent initiatives

I have been releasing software as freeware and open-source since 1993. Most of my early work was for Acorn's RISC OS systems. More recent work has been for Windows, Mac OS X, Linux and Palm OS. The larger of these projects include:

Zoom

An interpreter for games written for Infocom's Z-Machine (an early virtual machine). These games include classics such as Zork, and more modern games usually written using the Inform language. Zoom runs on Linux and OS X.

Inform 7

I have been working with a small team of others on the next version of the Inform language. My involvement has been to write the OS X user interface (which is intended to be the reference interface for other platforms). This is a development environment designed to make it simple for authors to design interactive stories and test them out. At present, Inform 7 is in closed beta.

Career summary

Qualifications

I graduated from the University of Warwick in 2001 with an honours degree in Computer Science. Previously, I gained 3 A-Levels in Maths, Physics, English Literature and an AS-Level in Further Maths.

2003-2005: self-employed

Over this period, I have worked on a variety of projects for several clients. I have worked on projects for the National Electronic Library for Health, for instance improving a Java-based XSL build process and developing an implementation of the Open Archives Initiative standard,

A large project over this period was designing and developing a website for Clinical Governance in the Norfolk, Suffolk and Cambridgeshire Strategic Health Authority - the result of this work can be found at <http://www.clingov.nscsha.nhs.uk>.

I have worked on a variety of other projects over this time - for instance, I have performed security testing for a Linux installation, I have developed an API and a set of applications for driving a PalmOS controlled weighing machine, and I have designed and developed other websites, such as <http://www.gtigallaghertraining.com/>.

2002

CARET (Center for Applied Research into Educational Technology): work assessing the security implications of certain pieces of software.

I began contract work towards the end of this year, starting with the development of drivers for a PalmOS controlled weighing machine.

2001: University and CARET

CARET, Cambridge University: three months work developing security software. This involved developing an API for driving smart cards from different vendors (designed to be called from Delphi), and assessing particular readers for their suitability, and looking at biometric systems. I also worked on developing a cryptographic library for Palm OS devices. The cryptographic library included implementations of DES, RSA, Blowfish, MD5 and Tiger, and incorporated a secure version of the Palm OS database APIs that allowed applications to store and manipulate data on the fly encrypted with a strong algorithm.

2000-2001: Final year of University

Achieved my degree in Computer Science.

1999-2000: Year out working for Marconi in Coventry

This year was mainly spent writing test harnesses for a Voice-over-IP (VoIP) gatekeeper. Most of this work was in Perl under Linux, but also involved working with systems running Unixware, LynxOS, FreeBSD and Solaris. I designed systems to test SNMP, MGCP and H.323 functionality, and built a web-based system to store and retrieve historical results, as well as remotely run tests.

1997-1999: University of Warwick

First two years of University, studying Computer Science.

1996: Lindis International

My first experience with writing commercial software. Lindis asked me to redevelop an application, called 'Buttons' for them to simplify the process of launching applications under RISC OS.