

Curriculum Vitae – Scott Hill

Full Name: Scott Andrew Hill
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Qualifications:

1999-2003 2:1 MEng Electronic Engineering, University of Southampton
1997-1999 A-Levels, Chichester High School for Boys

- A Economics (Awarded the Moores-Rowland Prize)
- B Physics & General Studies
- C Mathematics

1992-1997 GCSEs, Chichester High School for Boys
(2 at grade A*, 5 at grade A and 3 at grade B)

Professional Employment History:

Jan 2004 - Present Software Developer - Exony Ltd

- Working for the leading provider of interaction management software for virtualized customer contact operations.
- Responsible for full development lifecycle of several components in the Exony suite and contribution to ongoing support of released products.
- Designed and developed Java connector for Exony gateway allowing Java based applications (primarily IVRs) to route requests through the Exony Gateway to backend customer systems. Also implemented several Java Swing based interfaces to allow testing of Gateway scripts through the Java interface.
- Designed and developed .NET service and application for incrementally processing data from underlying Microsoft SQL Server RDBMS into OLAP cubes in Microsoft Analysis Services.
- Developed flexible Data Import Server using C# and custom scripting language built around XML. System handles importing data from Cisco ICM and CallManager as well as configuring these systems through proprietary Cisco APIs using Java and Web Services. Implemented system to synchronize data changes between the Cisco IPCC platform and the Exony data mart.
- Implemented multi-threaded file replication system using C# and custom socket protocols to handle efficiently transferring large database tables between servers in a replicated environment.
- Implemented multi-threaded cache engine for caching database tables and incrementally loading changed data. Developed search engine on top of this using custom search expressions to return records from the cache.

Summer 2002 Student Engineer - Sony Broadcast & Professional Research Labs

- UltraSONIC project. A re-configurable image processing PCI card based around Field Programmable Gate Arrays (FPGAs). Worked with a small team designing a Java based application for testing their proprietary hardware.
- Designed a GUI from scratch using Java Swing based components.
- Designed library for interacting with the board's driver through a native C++ API using the Java Native Interface (JNI).

Summer 2001

Student Engineer - Sony Broadcast & Professional Research Labs

- VIRTUE Project. An EU collaborative project with the objective of developing a three-site teleconferencing system capable of creating a sensation of presence. Worked on an individual research project with the support of a small team, assessing the viability of using a holographic display as a see-through projection screen.
- Developed a model of the system in Matlab, and used this to apply image processing techniques to real data.

Summer 2000

Student Engineer - Sony Broadcast & Professional Research Labs

- TCup project. A Java TV set-top box application. Worked with a small team developing one of the very first Multimedia Home Platform (MHP) applications on prototype hardware.
- Designed a unique user interface to make good use of the poor TV resolution and interaction using a remote control.

Technical Skills & Product Usage:

C#	Experience developing multi-threaded applications using C# in the Microsoft Visual Studio environment (VS2003 and VS2005).
Java	Experience of coding Java applications, including GUI design with Swing, and cross language communication using JNI. I am fully proficient with the Eclipse development environment.
XML	Experience with XML development using both Java and C#. Used several XML based technologies including XPath and XSL transforms.
C/C++	Experience of coding C/C++ applications in both the Microsoft Visual Studio & Borland C++ environments
ASP/ASP.NET	Experience coding server side ASP using VBScript and developing ASP.NET applications using C#;
HTML/DHTML	Experience coding HTML for multiple browser types and utilising JavaScript for client side scripting
SQL/Database Skills	Experience developing databases using Microsoft SQL Server and Analysis Services. Involved in developing complex SQL queries, triggers and stored procedures. Developed applications using LLBLGen, a leading O/R mapping solution.
Code Smith	Developed template driven applications using CodeSmith, a leading template-based code generator.
Cisco ICM	Experience installing and configuring Cisco ICM and interfacing with it through Java based ConAPI interface.
Cisco CallManager	Experience configuring Cisco CallManager and interfacing with it through AXL web service.

Interests & Achievements:

Chamberlain Halls JCR

- Elected JCR Events Manager (2000)
- Involved in organising and publicising hall events
- Managed a large budget and was responsible for sourcing and booking entertainment and venues.
- Organised and jointly ran a hugely successful summer boat party.

References:

Professor J S Wilkinson [Tutor]

Professor of Optoelectronics
Department of Electronics & Computer Science
University of Southampton
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Tel: +44 (0) 2380 592792
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Levon Pettrouss-Terzaghian [Engineering Director]

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