|  |  |
| --- | --- |
| Name | Nathan Grant |
| **Date of Birth** | 14-Sept-1972 |
| **Address** | 18 Oxfield Park Drive, Old Stratford, Milton Keynes, Northants, MK19 6DP |
| **Phone** | 01908 261 580 |
| **Mobile** | 07917 407 653 |
| **Email** | [nathan.grant@slamjam.co.uk](mailto:nathan.grant@slamjam.co.uk) |
| **Qualifications** | 2:1 BSC(Hons)Software Engineering, 3 A Levels, 10 GCSEs |
| **University** | University of Glamorgan – South Wales (1991-1995) |
| **Nationality** | British |
| **Marital Status** | Married |
| **Children** | 3 |
| **Languages Spoken** | English, French (Limited) |
| **Other** | Full UK Passport |
|  | Full, Clean UK Driving Licence |
| **Looking For** | Contract/Permanent IT Work |
| **Availability** | Immediate |

# SUMMARY

I am a very experienced candidate with over 15 years of c++ client/server development across a variety of platforms including Windows, Mac and Linux. Recently I have been specializing in **C# .NET** with WPF and WinForms. I’m a specialist in distributed communications and real-time systems design and have many years of experience of TCP/IP socket design for multi-threaded environments. I also have a large amount of knowledge and expertise in relational database design for real-time systems where speed of throughput and low latency times are key to the smooth operation of the system.

My most recent project has seen me develop a core communications layer for the handling of TerraBytes of data throughput for a state of the art media server. This has been a huge and rewarding challenge and my knowledge in this area is second to none.

I am very task focussed and am capable of working in large and small teams. I am looking for **C++/C#** work that will utilize my extensive knowledge of real-time multithreaded application development where throughput and low latency are of high importance.

# Skills

|  |  |
| --- | --- |
| **Operating Systems** | Windows, Mac, and Linux |
| **Languages Used** | C/C++, Win32, C# .NET (WPF + WinForms), Visual Basic (VB6), OO, UPnP/DLNA, PHP, JQuery, SQL, Java (J2SE, J2ME), Pascal, Modula-2, XML, SyncML, HTML + HTML5, SOAP, REST. |
| **Software** | Visual Studio (6, 2008, 2010), XCode, SQL Server, MySQL, Microsoft Access , Dreamweaver, Eclipse, Flash CS4, IIS. Word, Excel, Powerpoint, Photoshop, Illustrator. |
| **Technology** | * TCP/IP, Sockets, HTTP, HTTPS. * Advanced Multithreading/Concurrency. * Real time distributed system development. * RDBMS (SQL Server, MySQL, Access, SQLite). * Media codecs.   + *(MP3, AAC, H.264, MKV, MOV, FLAC, OGG, AVI, WMV, WMA, PCM and more.)* * X.25/GSM data communications. * Protocol design/development. * High speed data communications. * UI Design and Implementation. * Symbian S60 + UIQ |
|  |  |

# Work Experience

## September 2011 – present, CONTRACT C++/.net/VB6/SQL server ENGINEER, cerulean PLC

Responsible for the business migration from Microsoft Access to SQL Server along with many updates to legacy software written in VB6 to C#.NET and VB.NET. Utilised my experience in both Oracle and SQL Server databases to assist with the migration.

Have gained experience of WPF and other aspects of .net to a high standard and am equally at home in C# and C++.

## NOVEMBER 2010 – September 2011, CONTRACT C++/VB6 ENGINEER, CARL ZEISS NTS

Designed and developed a brand new database schema and client wrapper for the control of Carl Zeiss Transmission Electron Mircoscopes (TEM) and Scanning Electron Microscopes (SEM). Job involves all aspects of the product lifecycle. My day to day tasks centre around the development of key software components in a combination of **Visual Studio 2010, Visual Basic 6, and Microsoft Access**.

## January 2009 – PRESENT, CTO, Founder AND LEAD DEVELOPER of TVMOBiLi (<http://www.tvmobili.com>)

Jointly responsible for all development of TVMOBiLi media streaming platform. Developed in **C++** and **PHP** with an **SQLite** database back end for portability. Written in **OO C++** for **Win32**, **Mac** and **Linux** (**Fedora** and **Debian**), this platform relies heavily on the principles of real-time system design and multi-threading communications using **TCP/IP** and **HTTP**, in which I am an expert. To achieve stutter free steaming the development has been extremely fine tuned for high data throughput/low latency and is capable of delivering high definition media streams amounting to TerraBytes of data in a very short period of time, reducing latency to an absolute minimum.

## JANUARY 2010 – MARCH 2010, Contract Microsoft Access Developer DRC Locums

Designed, developed and distributed companywide tracker database for tracking jobs, hospitals and financial information for >500,000 records. Database delivers custom reports to board for tracking company turnover and revenue. An extremely complex database utilising all areas of **Access** - **Tables, Queries, Forms, Reports, Macros and Modules**. Enhanced the functionality of the database by providing access through an interface written in **Visual Basic 6**.

## February 2005 – January 2009, CTO of KeyCriteria Direct LTD

Successfully managed and ran a large department of developers (150+) on the company flagship product ZangBeZang. Reported directly into CEO and helped develop major relationships across EMEA Region. Developed in **C++,** **PHP** and **Flex/Flash**.

## May 2004-February 2005, SYMBOS LTD

Developed a number of applications using the Symbian UIQ and S60 and targeted the new Nokia/Sony Ericsson Symbian smart devices. Once the applications had been developed I setup an online ‘App’ store for the sale and distribution of Symbian software similar to Handango.

## February 1998-May 2004, Lead Engineer/Team Leader Trafficmaster plc

Designed and developed 2 key flagship products using **Win32 MFC C++** and connected to a high throughput **SQL Server** installation for gathering GigaBytes of data every hour of the day. Developed PTFM (The blue poles by the side of the road) number plate recognition system and then developed world’s first off-board navigation system ‘SmartNav’. A high throughput real-time traffic monitoring system that was in constant communication with over 8000 individual sites across the UK using **X.25** and **CAPI (ISDN)** protocols.

# ADDITIONAL PROJECT WORK UNDERTAKEN

As well as the previous jobs listed above, I am also a successful freelance developer and have designed, developed and commissioned many projects in my freelance capacity. Listed below are a selection of these.

## TeePix (<http://www.teepixgolf.com>)

Designed and developed a state of the art communications protocol and delivery mechanism for the automated delivery of golfing photos direct from the tee to the golf house so that golfers can purchase their favourite action shot within minutes. Also developed full back office payment gateway to accompany this product using paypoint.net.

## KETTERING TOWN FOOTBALL CLUB (<http://www.ketteringtownfc.co.uk>)

Designed, Developed and now host the main Kettering Town FC website and also developed simple streaming system for the delivery of video highlights.

## TEXTMOBILI (<http://www.textmobili.com>)

Developed the complete website for TEXTMOBILI.COM.