# KEITH JONES

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# Profile

A goals-orientated self-starter, with extensive expertise gained in the field of IT within pressurised, commercial environments where the achievement of time-sensitive targets is vital. Skilled in the identification, installation and migration of a wide range of systems and programs. Demonstrates a high level of ability in time management, organisation and prioritisation to ensure the maximisation of operational excellence. A committed team player who relishes challenges and readily assumes accountability in an autonomous role demanding skills in problem solving combined with initiative and determination.

**Expertise:**

* Sterling Integrator (7 years)
* Sterling File Gateway (7 years)
* Connect Direct (9 years)
* C (18 years)
* C++ (7 years)
* Perl (7 years)
* SQL (10 years)
* Shell scripting (4 years)
* Unix (18 years)

**Status:** Married, three children

**Short Courses attended**

Presentation Skills

Powering up to Sybase 11.5 (ASE)

Sybase Replication Server Administration

Performance and Tuning for Sybase XI

Systems Administration for Sybase

Programming in C under UNIX.

Inforem Structured Methodology for Programmers.

Telon On‑Line for Developers.

Introduction to DB2.

Telon Batch Programming for Developers.

SQL for Programmers.

Lloyds Banking Group Jan 2018-current date (contract)

Engaged to work on file transfers using Connect:Direct, Sterling File Gateway and Sterling Integrator. Tasks include installation of new nodes, including Secure+. Setup of new routes and user proxies. Creation of new partners, templates and channels in SFG and configuration of 3rd party connections through Sterling Proxy. Additional work includes adding nodes to IBM Control Centre.

Tesco Bank Nov 2016-Dec 2017 (contract)

Migrated Sterling Secure Proxies, perimeter servers and SSP Control Manager off Windows servers and on to RHEL. Installed and configured Control Centre. Acted as liaison with external companies for the repointing of development SFTP and Connect:Direct transfers to a newer setup including technical support to ease the transition. Extensive use of Sterling File Gateway and Sterling Integrator.

Lloyds Banking Group Jun 2016-Nov 2016 (contract)

Working in file transfer security and part of the team updating Connect:Direct nodes on Solaris, AIX, HPUX and Linux. Also responsible for writing a number of Perl scripts to assist in the node update (i.e. extract Secure+ information and produce data which can be imported into Excel spreadsheets). In addition to this I am used as a point of reference for any \*nix related questions.

Morgan Stanley. Jun 2015-Jun 2016 (contract)

Worked in the Listed Sales and Trading team on a high profile trading system that executes a significant amount of flow across various divisions. This is a high-throughput, real-time trading system responsible for the trading of Stocks, Listed Derivatives, Bonds, etc..

The role I worked in was as an Integration Engineer, responsible for managing the complex and highly distributed production environment, designing new trading functionality and workflows front to back, deploying upgrades to the system (qa and production), come up with innovative ways to automate work via scripting in Perl, troubleshooting problems, interfacing with traders, etc..

The system comprises of C++ applications running on Linux, with C# and Java trading front ends that run on the user's desktop and communicate using Fix protocol messaging and working in a global team environment which requires someone who can share ideas and express themselves well.

Tesco Bank Feb 2012-Jun 2015 (contract)

Employed as a Connect:Direct SME for the middleware team, providing project design and build for internal and external facing targets. Software used includes Sterling Integrator, Sterling Secure Proxy and Sterling File Transfer Gateway. These were running on Windows and Linux.

In addition to this I also wrote a number of perl scripts to query the underlying Oracle database in SI and produce volumetric statistics. I was also involved in a number of discussions with the DBA and Operate teams about improving monitoring on the databases used by Connect:Direct. When Tesco Bank migrated from a codelist based transfer to using Sterling File Gateway with Channels and Templates I wrote a number of perl scripts which converted between the two methods, thus reducing the manual effort involved. I was also involved in the migration of SI off a Windows based platform to a Linux one and wrote conversion scripts with perl and SQL to query an mssql database and load the data into the Oracle database.

Further to this I also wrote a number of scripts to emulate file transfers with the time critical portions written in C.

JP Morgan Chase Mar 2009-Feb 2012 (contract, 3 renewals)

I was employed on a contract within the Futures and Options teams, working as an ETL consultant, using a tool called Transformation Manager (from ETL Solutions Ltd). The role involved taking existing code, written in a mixture of shell and awk scripts and rewriting them in TLM, which creates jars from its own transformation language. The target database is Sybase 12.5

As of February 2010 I was re-employed in my previous role as Environment Support Analyst, but with increased responsibility as manager of the team with two onshore and five offshore analysts. The role encompasses all the previous responsibilities and also the migration of all existing systems off Solaris and onto Linux and Oracle 10g databases to RAC 11g in all environments (dev/sit/uat and production), including the installation of new Connect:Direct nodes.

In addition to this I was involved in resolving production issues and producing perl scripts to assist the Operate team. An example of this is one which monitors MQ queue depth and notifies when there are messages which are not moved off the queue.

JP Morgan also evaluated a number of batch control systems before finally settling on Control-M and I was involved in the configuration of batch jobs for this.

JP Morgan Chase August 2006-Jan 2009 (contract, 3 renewals)

I was employed, on a contract basis, as the environment support analyst for the Prime Brokerage, Portfolio Risk Management Services and Giveups development teams. This meant covering support for applications running on Solaris 8 and 10 servers from development, system integration test, user acceptance test and onto production. It also meant trouble shooting a number of components which the applications interface with: MQ, ldap, Connect:Direct, Fuego (BEA Aqualogic BPM), tomcat, apache, Murex and Oracle. When there were issues to be dealt with then my role was to investigate the issue and resolve it or establish the cause and liaise with the relevant external team to ensure a successful resolution. In addition to this I was also responsible for the administration, maintenance and installation of development and UAT servers using Red Hat Linux

In addition to this I was involved with the migration of two systems from Solaris 8 Sun Fire V490 onto Solaris 10 M5000. Moving between operating systems revealed a number of differences which had to be resolved immediately to avoid any down time for the applications. This was conducted in a fashion which meant that the business suffered no break in application availability.

Inevitably my Perl skills were utilised with a number of scripts written to provide such functions as the prevention of moving of incomplete files for post-processing, simple record keeping of application ports in use and the creation and historical recording of java keystores.

HSBC Bank of Bermuda Systems June 2004-August 2006 (contract, 6 renewals)

I was employed by this company, on a contract basis, as a developer working on the Geneva team, this being the product from Advent. The role involved developing code in a combination of C, Perl and Korn shell scripts against an in-memory object oriented database running on Solaris hardware. From a business perspective the application produced portfolio valuations, made up of bond and equity prices, and used a Java front end, which was accessed via Citrix. There were price feeds taken from Reuters and Bloomberg which were used to produce these valuations and I developed a number of loader application to allow the processing and import of this data.

In addition to the development work I was also asked to liase with external departments in my role as part of the production support team.

Amongst the applications which I developed in Perl were:

Script to take XML format data (using XML::Twig) and reformatting data into CSV (using DBI::CSV) format which was then written to a file for issue to vendor.

Built Perl GraphicsMagic binary and wrote script to take XML format data and display as an updated graph showing batch start and end times. This was then pushed out to a web page for access by user community.

A number of quick reference Tk Perl scripts to show server state (memory, disk usage, cpu busy).

XS module with OO interface to allow easy access to shared memory segments.

Took long running shell script and converted to multi-child perl script, using fork, semaphores and shared memory.

Wrote a web based queuing script with updated display for loader files.

JP Morgan Chase April 2003-June 2004 (permanent)

I was employed as a senior developer responsible for the feeds side of a large client valuation application. Data is taken from a number of different feeds, covering swaps, securities and fx forwards (from a Murex based system), and loaded into a Sybase 12.5 database after being processed by a number of Perl and Korn shell scripts. All of this runs on Solaris hardware. The majority of the work is based upon client requirements although, as the system is mature, there is a large amount of ongoing maintenance and tuning of the system. In addition to this I am also called upon by the operate team to investigate any problems they encounter which can not be covered within their team. Given the large volume of data which needs processing performance tuning of the database and applications is of high importance and I am called upon in this area.

I also project managed the implementation of a UAT and contingency environment and was also called upon by other teams for Sybase and Perl consultancy.

BNP-Paribas February 2001-February 2003 (contract, 4 renewals)

I was employed by BNP-Paribas in February 2001 on a contract basis. The team I worked with was concerned with taking feeds from a number of different departments and utilising the data to generate statuary reports for the Bank of England and for internal usage within MIS systems. Close liaison with various business units was required as was the ability to work independently. We were also responsible for the creation of written technical specifications based upon the analysis conducted with the business unit and peer review of these documents was carried out within the team. The specifications were then used to develop the applications. As a team we were all capable of performing the required tasks but individual strengths were utilised where applicable. The skills which I was called upon to utilise most were performance tuning of the databases, replication server knowledge and Perl scripting. The skills utilised by the team as a whole were SQL on Sybase 12/12.5, C/C++ on Unix (AIX) using STL and Korn Shell scripting. The source control system used was CVS on Unix and SourceSafe on NT.

### Jones Computer Consultants April 2000-February 2001 (self employed)

With the growth of the internet I decided to leave the CIB to develop an application which I had designed. This utilised a number of development and DBA skills including MySql, perl, VC++, ODBC and HTML. Sadly the market collapsed before I had the opportunity to fully develop and market this application.

The Chartered Institute of Bankers May 1998-April 2000 (permanent)

The CIB was formed in 1879 and is a membership organisation, which provides education to the Financial Services industry. It has two offices: Canterbury is the administrative office and London is the bookshop and library.

As IT Director I was responsible for a number of areas, connected with the development of IT:

* Team management. Prior to my arrival the IT team, consisting of twelve staff split between DBAs, developers and support, had had no clear sense of direction or purpose. The team was very demoralised and felt that it needed to defend all its decisions. With the introduction of project and team management methods their status rose within the company and morale improved.
* Strategic planning. In the past the CIB had no clear idea of which direction to take with regards the implementation and use of technology. Therefore one of my first tasks was to review the current position and suggest a definite direction for them to pursue. The first part of this strategy was implemented with the removal of older Data General servers and their replacement with higher specification servers running UnixWare 7. As a consequence this has given the CIB a huge increase in performance with the additional benefit of reducing ongoing maintenance costs to a fraction of what they were. The introduction of a more stable and reliable infrastructure has led to the process of requirements gathering for IT projects and an increase in confidence of the user community that IT can offer real solutions.
* Technical Consultant. In the past the CIB had never used any form of project management, hence projects were always delivered late, if at all. I introduced full project management with the result that all departments were made aware of the status of each IT project and the impact of requests for unplanned work. This resulted in greater trust between the IT and other departments and the creation of a long-term project plan.
* Internet. The CIB has a number of Local Centres, the majority of which are based in the UK with others in the Caribbean and Hong Kong and the delivery of materials to these Centres incurred a massive postal bill. I was asked to examine ways the CIB could use the internet to deliver tuition and examinations to these Local Centres. Further to this I was asked to design a three-year strategic plan for the Institutes use of the internet and this plan is being implemented.
* Intranet. Before my arrival the CIB did not have an intranet. This was successfully implemented, allowing the rapid distribution of information. It has also led to a reduction in the amount of paper which was distributed around the company. In addition to this I was responsible for the introduction of a VPN, for use by the sales team.

HSBC Asset Management March 1992-May 1998 (permanent)

I was employed as the Global Infrastructure Manager for HSBC Asset Management. This job entailed working with a team of ten in London, three in Hong Kong and one in each of New York, Melbourne, Tokyo and Singapore. Each of these teams is responsible for the administration of a global network of HP servers, the Sybase XI dataservers on these HPs and the connectivity between the servers. We were used by all parts of the group as a reference point for replication. I was responsible for sizing the HP servers for all the company’s offices and determining the ongoing strategic direction that the company took regarding all server-based technology. I also acted as an internal consultant to all parts of the group on any subject that pertained to HP/Sybase servers.

I was involved in performance tuning the Sybase SQL servers, the creation of all replication domains, the migration of data off Sybase 10 to Sybase 11 and the installation of Sybase data servers globally. In addition to this I also introduced the use of Perl and sybperl to the company. This was used for a variety of tasks but mainly to replace a number of scripts which were written in a variety of languages. I had additional responsibility for the WANs between and LANs within each office.

I was initially employed by HSBC as a Technical Consultant for their Luxembourg office and this role was concerned with the maintenance of their fund dealing programs and also programs which provided MIS information, written in COBOL and running on two IBM System 36 machines. My greatest achievement was the design and implementation of a cryptographic front end which permitted client data to be held in the UK. The encryption algorithm, which was my own design, was approved by the Institute Monitaire du Luxembourg which is the statutory financial regulatory body.

Target International S.A. November 1990‑March 1992 (permanent)

I was employed by Target, who were an assurance subsidiary of the TSB based in Luxembourg, as a Systems Development Consultant.

My work involved large-scale developments in C and SQL under UNIX running on a Texas Instruments s1500 series mini using TCP/IP for data transfer. The relational database used was Informix. The company also used an older TI990 and part of my role was to migrate software, written in COBOL, off this machine and rewrite the functionality into C. The data also had to re-modelled into relation form.

I gained extensive team leadership experience with Target, as I was the most experienced UNIX/C person within the company. And so acted as the team leader/Senior programmer on all projects.

I was involved with the software development at all stages, from the initial interviews with users through analysis up to installation of the software. The documentation was originally written using Word Perfect, but the company decided to migrate to a UNIX word-processing system and Uniplex was chosen.

I was also involved with writing software to download the daily exchange rates off the Financial Times host using an X.25 link.

Inforem April 1989‑November 1990 (permanent)

Inforem employed me as a Telon Developer for a large building society. All analysis was carried out using the Inforem Method and this was then passed on to Developers to realise the design using Telon ‑ an application generator which produces COBOL source. This work was done on IBM mainframe equipment under CICS using DB2 as the database system and SQL as the database engine. Although most of the work was done using Telon, occasionally it was necessary to modify the code, or write a routine in COBOL.

I was originally employed as a Lead Programmer based in Leeds. All work was written in C on IBM 4684 point of sale terminals under MS‑DOS using RIPSS, a multi‑tasking shell. Other work was done on PS/2 machines under MS‑DOS connected via a token ring network using an OS/2 LAN server and so some Presentation Manager programming was necessary.

We were also contracted to write an MIS system for a large brewery. This was written in C and ran on an OS/2 based PC LAN environment.

Whilst working for Inforem I was involved in writing communications software using IBM 3780 bisynchronous protocol. I also wrote a number of programs under NetBios, including a remote viewing program, which copied the contents of one screen on to another across the network via a Terminate and Stay Resident routine on the remote system.

Microskil January 1988‑April 1989 (permanent)

This company is based in the West Midlands and is an ICL trader point. The hardware in use is ICL DRS300 and ICL PWS machines using CDOS, QNX and MS‑DOS. All software was written in C and was mainly retail systems. The major project that I was involved with was a system that enabled West Midlands Gas to control their retail sales. This involved mainframe communications to check on stock levels and to book installation of appliances. I was the Senior Programmer on this project. Although most of the programs were written in C/C++ I was also responsible for the implementation of an accounts package in dBase III under QNX, a UNIX type operating system for micros.

Thorn‑EMI October 1986‑January 1988 (permanent)

Thorn-EMI T.V. and Video Centres employed me as Divisional Computer Manager, attached to the Financial Controllers department. My main role was that of internal consultant, which meant that I had to take overall responsibility for all the machines that were used in the head office. I had to arrange maintenance on the machines, be responsible for ordering consumables, arranging discounts on machines for purchase, recommend, evaluate and train staff in the use of various software packages. I was also responsible for writing systems in C and dBase III+ as well as with Lotus 1‑2‑3 under MS‑DOS.

These systems were connected with the financial side of the business and included a budget system, a Vehicle Fleet Management system and a stock forecast system.