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SKILLS SUMMARY

Business	Derivatives, Risk, E-Commerce, FX, SWIFT, Settlement Systems, Data Feeds, FpML, Integration, Publishing
Design	UML, Relational Databases, Object Oriented Design, Software QA, TDD, BDD, Functional Programming, ETL, EAI/EIP
Client	Applets, RIA, HTML5, AJAX, jQuery, JavaScript, D3, Swing, GWT, SVG, Vaadin, Play, Scala.js, Ractive.js, Vue.js, Velocity.js
Server	J2EE, EJB, JDBC, JUnit, Ant, Maven, JNDI, JSP, JSTL, Struts, Servlets, Weblogic, WebSphere, JBoss, Spring, Hibernate, MapReduce, XCC, MongoDB, NoSQL, Akka, Actors, SBT, Spark, GraphX, Breeze
Message	XML/XSLT 1.0/2.0/XPath, XQuery, SAX, JAXB, SOAP, RMI, JMS, Spring-WS, Spring Integration, MQ, JBossMQ, ActiveMQ, Camel, Tibco Rendezvous, EMS, Sockets, XQJ, Netty, RDF, Hazelcast, Ignite
Languages	Scala, JAVA, XSLT, XQuery, Python
Database	SQL Server, Sybase, Oracle, PL/SQL, MarkLogic, Neo4j, ElasticSearch, Cassandra, MySQL, InfluxDB
O/S	UNIX, Linux, Microsoft Windows, Heroku
Benchmark	Score of 99% quartile on Brainbench Java 2 and HTML benchmark. Score of 100% quartile on TekCheck JDBC , Java 2 , Server benchmark

WORK SUMMARY

Director	Felstar Ltd (Own Ltd Company)	Jan 2000 - Present
Scala Developer	Atos/HMRC	Aug 2016 – Oct 2016
Scala Developer	On Track Retail	Feb 2016 - May 2016
Senior Scala Dev	CAXIS	Mar 2015 – July 2015
Scala Lead Dev	Inkflash	Oct 2014 – Mar 2015
Java Engineer	HSBC Global banking and Markets	May 2014 – Oct 2014
Scala Engineer	Barclays Corporate	Aug 2013 – Jan 2014
XSLT Developer	TSO	Apr 2013 – July 2013
Integration Dev	Standard Bank	May 2011 – Sep 2012
Java Developer	HSBC Global banking and Markets	Jun 2010 – Sep 2010
eCommerce STP	Unicredit Bank	Mar 2010 – May 2010
XQuery Developer	JPMorgan Chase	Aug 2009 – Mar 2010
Java XML Developer	Reuters PLC and Thomson Reuters PLC	Jan 2008 – Nov 2008
Java XSLT Developer	Fitch Ratings PLC / ValuSpread	Oct 2006 – Nov 2007
Java XSLT Developer	Elsevier Science Ltd	Mar 2006 – Oct 2006
XML Contractor	Fish4.co.uk	Feb 2005 – Dec 2005
J2EE Contractor	Misys International Banking Systems	Sep 2004 – Jan 2005
Senior Contractor	Capula/Elan Ltd	Jan 2004 – May 2004
Senior Contractor	Invokon Ltd	May 2002 – May 2003
Contractor	Javelin Software Ltd	Oct 2000 - Oct 2001
Contractor	pensionsbusiness.com	Oct 2000 - Oct 2001
Contractor	Sapient/Assertahome.com	Mar 2000 - Jun 2000
Contractor	LastMinute.com	Jan 2000 - Feb 2000
Senior Developer	Future State Technology	Jun 1996 - Nov 1999
Senior Developer	Fusion Systems Ltd	Jan 1996 – May 1996
Senior Developer	Icon Software Ltd	Jun 1993 - Nov 1995

EDUCATION SUMMARY

1983-1985	North East Surrey Technical College	3 A-Levels (Computers, Physics, Pure Maths)
1978-1983	Alleyn's College, Dulwich.	9 O-Levels

EMPLOYER	FELSTAR LTD	Jan 2000 – Present
POSITION	CONSULTANT / DIRECTOR	
CLIENT	Atos/HMRC	Aug 2016 – Oct 2016
BUSINESS	Working on Tax Free Childcare for HMRC	
TECHNOLOGY	Scala, Play Framework, Guice, Spray, ScalaTest, HTML 5, Jenkins, GDS Code reviews, Bug fixing, Major refactoring, SBT improvements, porting entire front end to Play 2.5.x	
CLIENT	On Track Retail	Feb 2016 – May 2016
BUSINESS	Working in the train ticketing space.	
TECHNOLOGY	Scala, MySQL, Slick, scalaxb, Spray, Akka, Kanban, npm, gulp, handlebars/mustache, Kamon, grafana, statsd, graphite, Docker, Datadog, ScalaTest, RabbitMQ, Akka Streams	
CLIENT	CAXIS	Mar 2015 – July 2015
BUSINESS	Working in the OOH advertising space creating a new platform.	
TECHNOLOGY	Scala, Vaadin/Scaladin, HTML 5, Slick, POI, MariaDB, CSS, Sass, Leaflet, Javascript	
CLIENT	Inkflash	Oct 2014 – Mar 2015
BUSINESS	Working on a 3D book store http://inkflash.com https://www.youtube.com/watch?v=Y2rIoTfJgAA	
TECHNOLOGY	Scala, Scalatra, Scaladin/Vaadin, HTML 5, ScalaTest, Akka, Neo4j graph database, Play Framework	
CLIENT	HSBC (Via Oracle Consulting)	May 2014 – Oct 2014
BUSINESS	EMIR Delegated Reporting http://www.hsbcnet.com/gbm/about-us/financial-regulation/emir/delegated-reporting for Data Services Layer (DSL). DSL platform won Best Wholesale Bank for Technology Innovation award at Euromoney Awards for Excellence 2014	
TECHNOLOGY	Java 7, Spring, Spring STS, XSLT, Saxon, Drools, Maven, JUnit, RTC Jazz, jsoup, FpML 5.x, XSD, Elasticsearch, Logstash, Kibana	
CLIENT	Barclays Corporate	Aug 2013 – Jan 2014
BUSINESS	Working on a strategic mobile payment platform: Pingit for corporates http://www.barclayscorporate.com/products-and-solutions/cash-management/barclays-pingit-for-corporates.html	
TECHNOLOGY	Java 7, Scala, Spring MVC, REST, Vaadin, Scaladin, Scalatra, Scalate, Akka, Spray, HttpClient, Gatling Stress Tool, ScalaTest, BDD, Git, 2-way SSL, JCE/JSSE, Tomcat 7, Jetty, Maven, WAS	
CLIENT	TSO	Apr 2013 – July 2013
BUSINESS	Working on the Gazettes project to unify the existing Government Gazettes websites into one cohesive whole. Working on the HTML5 UI in XSLT 2.0 . XSLT Transforms under Marklogic . Also wrote XForms engine. Lots of mentoring and assistance to Java team	
TECHNOLOGY	Java 7, Spring MVC, REST, XPath, Marklogic 6, XQuery 3.0, Saxon, XSLT, Tomcat 7, XForms, HTML 5, RDF/RDFa, SPARQL. SVN, Maven	
CLIENT	Standard Bank	May 2011 – Sep 2012
BUSINESS	Sitting within Architecture and Integration Middleware team I was responsible for various Enterprise Messaging Migration tasks for the real-time Trade Bus . First I had to assist in fixing bugs in the SBML/FpML translations, due to lack of validation, handling upstream cross product messages from Front, Brady 500/600, Murex GTS/EQD/Energy into SBML and then onto downstream subscribers. This ranged from simple code changes and unit tests to more complex discussions as to where to source missing elements, appropriate	

FpML structures etc. My previous **FpML** experience at **JP Morgan** proved very useful.

Translated existing **Python** codebase into Java, for a pure Java solution. Upgraded and improved **Hudson/Jenkins** continuous integration install as it was running too slowly, which impacted the dev life cycle, made build run in 1/4th of the time.

Various production performance issues, e.g. 1 hour process now runs in 20 seconds, removing massive memory leak, fixing race conditions etc.

Created end user **multithreading Trade Bus** API and **REST WebService** for **Java/C#** publishers/subscribers for use with the new **Enterprise Bus**.

Extended **test harness** to include non **Trade Bus** subscribers including external process JVMs and languages other than Java, initially for **Traiana Harmony** and **FX Spot/NDF** handling.

Extensive **Data Analysis** for schema documentation and data quality.

Distributed **regression test framework** for new **Enterprise bus**.

TECHNOLOGY **Java 7, XPath, Hudson/Jenkins CI, Marklogic 6, XQuery 3.0, Saxon, XSLT, Joda Time, Python, Apache Commons, JUnit, log4j, JMX, WebServices, C#, XSOM, XSD, Apache CXF, TestNG, SVN, Esper, Spring Integration, Camel, FpML 4.x**

CLIENT **HSBC Global banking and Markets** **Jun 2010 – Sep 2010**

BUSINESS I was responsible for various **MI (Management information) Research Dashboard** initiatives in the **Global Research** department. I was tasked with first analysing then migrating various manual/**Excel** based procedures into an **Ajax** web UI. Areas included were Readership, Entitlements, Authorisation, Analyst lookup, Broker Votes and Global Tiered Access.

TECHNOLOGY **Java, Tomcat, WebSphere, SQL Server, Transact-SQL, XSLT, Ajax/jQuery/jqGrid, JavaScript, HTML, Apache POI for reading XLS**

CLIENT **Unicredit Bank** **Mar 2010 – May 2010**

BUSINESS I was responsible for various **eCommerce STP** development tasks in the front office. My first task was to enable STP for **Reuters RET FX Spot/Forward** Trades coming from the **FXO** desk, via **Quantus/Caplin** through the Reuters **LBN** via **MQ**, passing it onto **Murex** in **MxML** format via **MQ**, for later posting onto **Kondor** +. Before I did this trades had to be manually booked. I did this using the in house **XStream multithreading** low latency messaging server and mapping in **XQuery and XSLT**. My second task was to convert **RET** trades to **WSS** format and send to the Vienna server, keeping track of ack/nacks.

My third task was to convert **RET Spot/Forward/Swap** into a standardised format (**ebom**- eCommerce Business Object Model) for consumption by 3rd party systems like **Traiana, Sophis**, and **Opics**. This allowed us to remove commercially sensitive data and only send what we needed, resulting in smaller messages, less latency and faster processing.

TECHNOLOGY **Java 1.5/1.6, Sybase, SQL Server, Saxon XQuery/XSLT, XSD, RET, Murex, Kondor+, IBM Websphere MQ, JNDI/LDAP**

CLIENT **JPMorgan Chase** **Aug 2009 – Mar 2010**

BUSINESS <http://www.marklogic.com/solutions/operational-trade-store/>

I was responsible for developing the complex **XQuery** transforms needed to map the existing derivative trade message formats to the new canonical message format necessary for the **ODS** project: **GBOM** (Generic Business Object Model) . The Operational Data Store (**ODS**) is a facility to create, revise, access and manage shared business data in a secure,

stable and consistent manner. In time the ODS will become the primary mechanism by which applications access shared transaction data in the firm, i.e. a SRP (Strategic Reengineering Project). **Nominated for the Best Investment Banking Initiative for The Banking Technology Awards 2011.**

Source message formats included **RmSwapTrade, TradeMLConfirmable, TradeMLedgotc, IRMLfxo, IBML fxo/ird/commodities, FpML** containing **trade, confirmation and settlement** messages for **Interest Rate Swaps, Cross currency Swaps, CDS, CDO, Equity Swaps, Caps, Floors, Collars, SwapOptions, FX Options, Equity Options** etc.

My transforms were used in both the backload of existing legacy data, in batch mode, as well as on the live trades going through the **multithreading** message bus.

I also provided consultancy and mentoring on **XQuery/XSLT** related matters to other members of the team and within **IBTech Core Processing**.

TECHNOLOGY **Java 1.6 and Saxon-EE XQuery/XSLT, XSD 1.0/1.1, Sybase 15 ASE, Marklogic 4.x, XCC, XSOM, Oracle 11g, eXist-DB 1.4, mockito, Scrum, Hudson CI, SVN, FpML**

CLIENT BUSINESS **Reuters/Thomson Reuters** **Jan 2008 – Nov 2008**
I was responsible for importing **Thomson** feed data, before and after the merger.

I imported Thomson **ILX, ECF, GEM/SDI, RCM** data from multi gigabyte **XML** files into **Oracle**, in order to be integrated with the **Reuters NDA CORECAT** data. This pulled in organization, instrument, quotation and relationship data, in the case of **SDI, 22GB** of it. Due to the size of the data my solution had to be fast and able to handle the large volumes. Documented the above, liaised with QA and Ops. Created **Oracle APEX** applications in order to analyze and navigate the huge datasets. Did reviews of other people's Java designs. Also worked on **performance improvements** on existing feeds, code reviews for other teams.

TECHNOLOGY **Java 1.6 and JAXB 2.x, Spring, Hibernate, XSD, Oracle 10g, EasyMock, Multithreading Reuters Feed Server** architecture, used **Apache Derby** (aka **Java DB**) as a local data cache to avoid memory issues, **H2** in memory database to act as in memory cache, **Oracle APEX (HtmIDB), Solaris, KSH, Perl, Python, ExtJS**

CLIENT BUSINESS **Fitch Ratings PLC / ValuSpread** **Oct 2006 – Nov 2007**
I was in the development team for **RAPCD: Risk Analytics** Platform for **Credit Derivatives** for the **synthetic CDO** market.

I wrote the Market Data Report in **XSLT 2.0** with 17 different business rules to show data state and quality, intra-day comparisons and alerts, used before uploading **ValuSpread** and **Markit CDS** market data to the **Algorithmics** pricing engine.

I also developed various **XSQL/XSLT** pages for the main **RAPCD** web interface, adding pages for the handling of Market Data Batches, overrides and workflow, using **AJAX** technology for better user experience http://www.derivativefitch.com/rap_cd.cfm

I also added custom **XSQL** action tags for **SOAP Webservice** consumption, so that **XSQL** pages could access various external **web services**. Also created **XSQL** actions tags to publish to **JMS**

Created cross server communication framework with **ActiveMQ JMS** to enable various cross server processes to integrate workflow.

Also worked on **Excel XLA** addins to export data to **Excel** as well as conversion of **Deal Snapshot** editor **Swing**.

Prototype of **Flex RIA** framework UI as possible new front end. Wrote new **SOA** business framework, along **SOA Lite** lines, using

XSL/XQuery as driving language, using **Saxon8-sa** custom functions.

<http://www.xml.com/pub/a/2007/09/12/extended-xquery-for-soa.html>

This is now the backbone of our new **SOA** architecture.

Wrote **very large** dataset **AJAX** component, e.g. browsing and editing 100,000 rows of data in browser in performant manner.

Helping **ValuSpread** with their new customer portal, using above **SOA** framework, improving **PL/SQL** performance and the user experience

TECHNOLOGY

Java 1.5 and **XSLT 2.0** via **Saxon8-sa**, Optimized **XSLT** that took many hours to run so that it now took a couple of minutes.

Made **Prototype AJAX** handling of large (**20MB+**) xml data **9** times faster.

Enabled **gzipping** of XML, leading to **98%+** savings in data transfer

Created **Saxon** custom function to enable posting of **XML** body to **Web Services**, also enables **gzip** unlike standard **document()** function

XML REST web services and web pages via **Oracle XSQL**, **Oracle 10g**, **XSLT/XQuery Javascript**, **JSP**, **AJAX/Prototype/Scriptaculous**, **Spring-WS**, **Excel 2003 XML Maps**, **Excel VBA**, **XSD**, **SOAP**, **ActiveMQ**, **JMS**, **Swing**, **Flex**, **Saxon custom functions**, **FusionCharts**, **Schematron**, **PL/SQL optimization**, **C#**

CLIENT

Elsevier Science Ltd

March 2006 - Oct 2006

BUSINESS

I was in the development team for their web delivery system, **Phoenix**. **Phoenix** is the platform which delivers hundreds of online scientific journals, with accompanying custom websites, to individuals, societies and companies. My main task was to speed up and improve their **Tiptree** toolset, which was what they used to translate their site definition **XML** to the final delivery content format, also **XML**. Given my experience at **Fish4**, this proved to be an area with which I was very comfortable. I was also tasked with converting **Tiptree** to be compatible to our new **JEE** platform. My next task was to write a standalone test harness for the security module (**A&E**), allowing them to chase down severe performance issues. Next I was tasked with migrating the in house **C++** search and content engine (**Bibliotek**) to **MarkLogic**, a pure **XML XQuery** database, as the current system was slow, unstable, and couldn't take on any more business.

TECHNOLOGY

Pure **multithreaded** Java, **JDK 1.4.2**, **Spring**, **SAX/XML/XSLT 2.0**, **900+** journals to process, thousands of **XHTML** site fragments. Sped things up enormously, made it possible to select individual journals or clusters of journals for translation after the project lying dormant for over 6 months. The migration to **MarkLogic** of course involved converting the existing 1999 technology to the latest version of the **MarkLogic** pure **XML/XQuery** database, with the client side **COM/Java** code turned into pure **Java**.

CLIENT

Fish4.co.uk

Feb 2005 – December 2005

BUSINESS

I was in charge of the **ppm**, the **advert pre-processing module**. Every advert in the system went through the ppm in order to be validated, altered, and transformed into our final XML standard. It handles over **900,000** adverts a day from many different sources, for **jobs, homes and cars**. Also did **Data Migration** for over **600,000** user saved searches to new platform. **Documented** the ppm, complex (**Java** and **XSLT**) business rules were translated into English for the **Business Analysts**. Headed up **GateKeeper** project, taking final XML feeds from customers and validating against complex **XSD** schemas and Java side business rules in order to ensure data quality. Built web based **MIS** system to drill through advert data.

TECHNOLOGY

Pure **multithreaded** Java, **JDK 1.4.2**, **JAXB**, **Spring**, **jMock**. **SGML**, delimited, and loose **XML** (Silver) goes in, strict (Gold) **XML** goes out, for final upload to separate Import Module, also sent process messages to **JBossMQ** via **JMS**. Delimited files and **SGML** were transformed to intermediate **XML**, ready for **XSLT**. Business rules held in **Java** and **XSLT**. IDE was **Eclipse 3.x**

For the Saved Searches project I used **Sybase ASE 12.x**, **T-SQL Stored Procs**, **Commons Digest**, **Oracle PL/SQL**, and **MySQL 4.x**.

For Gatekeeper I used **XSD** schema plus custom DOM Builder so I could handle multi megabyte XML files yet still have easy use Document objects
 For the **MIS** system I used Tomcat 5.5x, **Netbeans** 5.x and **Flex**

CLIENT	Misys International Banking Systems	Sep 2004 – Jan 2005
BUSINESS	This was for the Message Manager Thin Client, a financial messaging platform . I created the SWIFT MT95/96/99 messaging module, system data admin, host data admin, and 4-eyes security administration module.	
TECHNOLOGY	The system ran on WebSphere 5.1 , IBM MQ , with an Oracle 9i database. Our IDE was WSAD plus Dreamweaver MX . For data access we used EJB and Spring , and on the front end we used Struts , JSP , JSTL , Taglibs , DHTML , and Javascript	

CLIENT	Capula/Elan Ltd	Jan 2004 – May 2004
BUSINESS	The system tracked patients in hospital, and managed their care pathways . Given the nature of the information the system had to be secure, robust and perform well. My role, as senior contractor, was to optimise the system, convert PHP code into Java and provide mentoring.	
TECHNOLOGY	I helped optimize the system, for example making the XML/XSLT transforms 100 times faster from Tomcat and Apache , and made the database calls to an Oracle database over 200 times faster using PL/SQL . I converted a lot of code from PHP to Java , in order to create a pure Java solution, using Struts and Tiles . Used Lucene to create a Swing Application for codebase mapping. I also introduced many tools to the organisation that made work more productive for the other developers, and spent a lot of time in a mentoring role . Running on Redhat Linux and Windows.	

CLIENT	INVOKON LTD	May 2002 - May 2003
BUSINESS	I was head developer for a distributed RIA for the hospitality industry . The system allowed complex configurable menus, food-ordering and logistics , data-entry, credit cards , multi-media presentations, chat and instant messaging. This was a cutting edge project due to the high demands from user requirements.	
TECHNOLOGY	The front end of the system ran in IE and used layered DHTML pages generated with JSP coexisting with Flash and Swing Applet components written in Java JDK 1.4. Communication to the server used a combination of JSP and Flash Web Services on Tomcat . Real time communication used a Java Socket level API called JNet, to broadcast data. A large ORM persistence layer wrote to an Oracle 9i database. Running on Linux and Windows.	