

Business Sectors
 Insurance
 Banking
 Telecommunications
 Retail
 Media
 On-line Gaming
 Airline

Scala
 Breeze
 Apache Spark

Machine Learning
 Tensorflow
 Apache Spark

Java / J2EE
 Spring (incl MVC)
 Spring Integration
 Web services
 Hibernate & JDBC
 NoSql (MongoDb)
 XML/XSLT, JSON
 JMS

Databases
 MySQL
 NoSql(MongoDb)
 Oracle
 Db2
 Tandem NS

Solr

IDEs
 Eclipse, STS, IntelliJ

App Servers
 - Tomcat
 - Websphere (4 - 7)

Methodologies
 TDD, Agile
 UML
 RUP

Other
 C
 Cobol

Personal Details

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Availability: 2018
Nationality: British and Australian

Over thirty years experience in the development and implementation of large scale, business critical systems in the insurance, banking, telecommunications, media, retail and airline sectors. Now working with Scala and Machine Learning frameworks with an interest in integrating ML into commercial applications.

Twenty years of commercial Java for both software houses and end user organisations, working with a variety of development methodologies and keeping up to date with all technical developments in the field.

Relevant Certifications

- Big Data Analysis with Scala and Spark
- Scala Specialization - Parallel Programming
- Principles of Reactive Programming (Scala)
- Functional Programming Principles in Scala
- Sun Certified Java Programmer
- Deep Learning Specialization (Tensorflow)
- Neural Networks for Machine Learning
- Mining Massive Datasets
- Machine Learning

Career History

Current Role: Scala / Java Senior Developer

May 17 – Current: Machine Learning
Client: Virtual Business Systems

- Environment:** Scala (Eclipse), Breeze, Apache Spark, WordNet, Tensorflow
- Developing a Scala / NLP based application to correlate arbitrary structured documents (XML, Json, SQL) into related datasets by tag and content similarity
 - Developing a supporting application to generate large datasets of random, syntactically and semantically valid documents
 - Developed a Scala Breeze / Apache Spark based CNN and FCN ML framework as an exercise to gain a better understanding of how neural networks are built. The framework's components are tested against outputs from the equivalent Tensorflow configuration.

Oct 15 – Apr 17: General Insurance
Client: LV
Environment: Java 8: IntelliJ, Spring Integration, XSLT, JSON, TDD, JIRA

- Developed General Insurance applications using Java 8 and Spring Integration.
- Developed script driven "mock service" to assist testing.

Jan 11 – Sep 15: Content Integration
Client: Sky Mobile and Interactive
Environment: Java 6: Spring 3 (Integration & MVC), XSLT, JSON, Plist, JUnit, Tomcat, Solr, NoSql(MongoDb), MySql, Hibernate, Maven, Agile, TDD, JIRA

- Developed highly performant server side systems to retrieve, aggregate, transform and cache data feeds for the multi award winning Sky Sports iPad app, plus the Sky Sports iPhone, Android and Windows apps.
- Maintained and developed other server-side administration systems required for the client apps.

Nov 09 to Jan 11: E-Commerce applications
Client: Salmon
Environment: J2EE / Java 6: Websphere Commerce, EJB, DB2, Spring, XML, TDD, Agile

Jun 04 to Sep 2009:

E-Commerce (Protection Insurance)

Client: Legal & General

Environment: J2EE: Eclipse (RAD / WSAD), Websphere 4 & 6, EJB, Spring + MVC, Struts, JMS(MQ), Web Services, Hibernate & JDBC (DB2), Drools rules engine, TDD (JUnit, CruiseControl), Subversion, ANT, UML

- Extended Spring / Hibernate based framework to monitor change to the business model, providing an auditing mechanism and communicating with the Drools rules engine. Developed other infrastructure components for use in J2EE applications.
- Extended Spring's test framework to enable comprehensive integration testing.
- Developed business components for online sale of Protection and General Insurance products.

Jun 03 to May 04:

J2EE Consultancy Services

Client: Aspective

Environment: J2EE: Eclipse (WSAD), Websphere 4 & 5, EJB, Struts 1.1, Web services, ANT, JDBC, Oracle 9.i, UML, Autonomy

- Re-engineered Avalon based application into J2EE architecture (including Struts presentation tier) allowing both architectures to co-exist, enabling a phased migration between them.

May 02 to Apr 03:

E-Commerce
(Business Banking – Customer Liquidity Management)

Client: Barclays Bank

Environment: J2EE: Websphere, WSAD V4, EJB, Servlets, JSP, XML, JUnit, UML (Rational Rose), RUP

- Produced UML Design for Customer System Integration component and sub-components of a Credit Aggregation product.
- Developed presentation and mid-tier code, using EJB Session beans to integrate Barclays Enterprise Components with a third party product accessed via a CICS Transaction Gateway.
- Produced comprehensive JUnit harnesses for components.

Apr 00 to May 02:

E-Commerce (Insurance) / Web Content Management

Client: Legal & General

Environment: Java 1.1 & J2EE: Websphere V4, WSAD V4, EJB, RMI, Servlets, JSP, Struts, JDBC(Oracle 8i/ DB2), JMS, Swing, XML/XSL, JUnit, UML (Rational Rose), Apache, JRUN

- Developed mid-tier components for Stakeholder Pension Scheme Administration and New Business Tracking applications
- Evaluated Portal Solutions to enable users to self author web pages and to integrate Legal & General web based products into third party sites.
- Produced XML based Web Content Management product allowing users to self author components of websites using a WYSIWYG XML/HTML editor

Jan 00 to Apr 00:

E-Commerce

Client: NSC Technology

Environment: Java 1.1 & 1.2, Servlets, JSP, JDBC(Oracle 8i), NT, Solaris (Apache), VisualAge

Developed user registration, order processing and tax/charge server components of application to sell network equipment and services over the Internet.

June 99 to Dec 99:

Web based Journalist's support Desktop

Client: Financial Times

Environment: Java 1.1 & 1.2, Swing, RMI, JDBC(Oracle 8i), Notes, NT, Solaris, XML, VisualCafé

Wrote client code for Wire Services, Story Sharing and integrated e-mail (fronting Notes and SII), then developed Chat sub-system and Notes middle tier. Implemented message digest and encryption security mechanisms and developed stress testing package.

Jul 98 to Apr 99:

E-Commerce (Internet Banking)

Client: Barclays Bank

Environment: CORBA, C + SQL, VB5, ASP, Tandem and NT

Used CORBA compliant Tektonic product running on NT servers and Tandem NSK platform to encapsulate existing database tables and server processes.

Jan 98 to Jul 98: Telco Operator Services Platform
Client: Volt Delta Europe
Environment: C + SQL, Tandem NSK
Supported phased implementation of the Operator Services Platform, consisting of PC based operator workstations, Interactive Voice Response Units and Tandem servers.

Aug 97 to Dec 97: Internet Lottery/Casino Systems
Client: Monacall S.A.M (Monaco)
Environment: HTML,ASP,VB5, Java, Cobol + SQL, PC, Tandem NSK
Developed server programs to maintain lottery database then wrote all required .asp web pages. Developed .asp/ActiveX Management Reporting subsystem. Wrote Java classes to standardise communications between game applets and the server. Produced "virtual roulette" ActiveX control.

Dec 96 to May 97: System Management Package with Web front end
Client: Optus Telecommunications
Environment: Java, HTML, C, Cobol + SQL, PC, Tandem NSK
Enhancement to "Information Gateway" (see below) to replace UI with Java applets, wrote a Java Class Generator (in C) to convert Cobol IPM definitions to Java class libraries.

Dec 95 to Nov 96: Telco Billing Data Warehouse
Client: Telstra **Environment:** C + SQL, Tandem NSK
Produced infrastructure to automatically load data files into a data warehouse via event driven initiation of multi-process DataLoaders using parallel translation and writing to multi-partitioned SQL tables.

Feb 95 to Dec 95: Telco "Information Gateway"
Client: Optus Telecommunications **Environment:** Cobol + SQL, Tandem NSK
Designed and implemented initial version of the system which retrieved call details files from various remote hosts and loaded the data into an SQL database for subsequent electronic transfer to customers.

Nov 94 to Feb 95: Telco Interactive Voice Response Bill Payment system
Client: Optus Telecommunications **Environment:** C, BETEX, Tandem NSK

Aug 94 to Nov 94: Retail Customer Loyalty System
Client: Fly Buys Australia **Environment:** Cobol + SQL, Tandem NSK

Jul 93 to Jun 94: Retail Accounts Receivable and Order Processing
Client: QIW **Environment:** Cobol, Pathway, Tandem

Nov 92 to Jun 93: Port of Mincom MIMS3 system to Tandem
Client: MinCom Australia
Environment: MinCom Pre-Compiler, Unix, Tandem, Sun SparcStation

Aug 91 to Oct 92: Retail Accounts Receivable and Order Processing
Client: QIW **Environment:** Cobol, Pathway, Tandem

May 90 to Jul 91: Occupational Health and Safety Insurance
Client: South Australian Govt **Environment:** Cobol + SQL, Pathway, Tandem

Jul 81 to May 90: EPoS: Auto spares, BACS, Samuel Montagues: Multi currency Lending System
BIS Applied Systems: - Investment Management / Dealing Systems
SAS: Aircraft Load Control and Ticket Issuing