

Career Synopsis:

Ian is an accomplished Software Engineer who has been managing software projects and building software for more than twenty years. Ian is a competent Software Architect and Project Manager who leads by example and believes that the key to developing great software is to develop a great team.

Ian has a solid and disciplined engineering background, and has taken architectural and management responsibility for a number of large successful object oriented software development projects from inception through multiple releases.

Ian has a strong foundation in C and C++ and for the last fifteen years he has specialized in designing and building large high-performance transactional database business application systems leveraging Java Enterprise and Web technologies and languages.

Ian believes strongly in mentoring and has practical leadership experience with a variety of software delivery methodologies including Agile(XP and SCRUM).

Ian has a unique mix of technical, communication and management skills that have enabled him to lead his customers and teams through many successful product releases.

Experience:**Message Bus** (February 2011 – Present)**Director of Engineering and Principal Software Architect**

(Scala / Node.js / HornetQ / MySQL / PostgreSQL / Redis / Google Cloud Services / Amazon Cloud Services / Joyent Cloud Services)

Responsible for the architecture and design of a cloud based message delivery platform that handles a high volume of large transactional messages. (Peak production volumes reached 1 billion messages per month – with tested capacity well beyond 4X that). Managed development team and mentored developers in Agile and XP programming best practices (including BDD and Continuous Deployment).

Michael Baker Corporation (March 2009 – January 2011)**Principal Software Architect**

(C# / ASP.NET MVC / Castle Windsor / NHibernate / NUnit / Liquibase / SQL Server)

Responsible for the architecture and design of a .NET web application to help manage construction and maintenance projects for the federal government. Responsible the technical leadership and mentoring of the development team, including SCRUM leadership and process mentoring and assistance with OO design and coding in C#. Provided training in modern OO design and development practices including: Inversion of Control; Object-Relational Management; Unit testing and Test Driven Development; Software Version Control and incremental software delivery; and Database Change Management.

JavaDojo (2007 – 2009)**Co-Founder and Chief Technologist**

(Java / Swing / Netbeans RCP / JavaFX / Groovy / Grails / Web Services / Java EE / Glassfish / MySQL)

Responsible for JavaDojo's strategic technical direction and invented JavaDojo's revolutionary Puresolv™ Platform which combines the power of JavaEE, SOA and Secure Web Services with Rich Client and Rich Internet Application technologies to create a new breed of web hosted SaaS (Software as a Service) Application System with unsurpassed functionality.

InsureWorx (formerly WorldGroup) (1999 – 2007)**Senior Technical Software Architect**

Principal Architect for InsureWorx's flagship product. Designed and co-developed WorldGroup's J2EE transactional business application platform and contributed extensively to, and taught WorldGroup's Rational Unified Process based methodology and software development best practices.

Assignments:Senior Technical Software Architect (October 2005 – March 2007) (Java/J2EE/IBoss/WebSphere/DB2)

Responsible for the architecture, design and development of key parts of a Java J2EE enterprise application system for a very large Insurance company. Worked as part of a team of four architects that oversee and support the development activities of a team of around 75 developers. This WebSphere/DB2 application system is required to support upwards of 25,000 users performing business transactions against the application deployed in a WebSphere application server clustered environment.

Senior Technical Software Architect (September 2004 – September 2005) (Java/J2EE/WebSphere/Oracle/Linux)

Responsible for the Architectural review, design and development of an on-line web enrollment system for a financial services company utilizing J2EE on IBM WebSphere. Established the development patterns and developed key parts of the application including the encryption services utilizing the Advanced Encryption Standard (AES) encryption algorithm.

Senior Technical Software Architect (July 2002 – September 2004) (Java/J2EE/WebSphere/Oracle/DB2)

Responsible for key areas of the design and development of the J2EE application platform that serves as the basis for all J2EE development at WorldGroup. Responsible for the technical architecture and design patterns employed in the development of components of WorldGroup's flagship product on IBM WebSphere.

Technical Software Architect (July 2000 – July 2002) (Java/J2EE/WebSphere/Oracle)

Responsible for the technical architecture and design of a J2EE, browser based, application architecture for a large multi-million dollar development project using IBM WebSphere. The first phase of this project was successfully implemented, on time, in January 2002, with subsequent phases brought on-line incrementally thereafter.

Software Architect (December 1999 – June 2000) (Java/J2EE)

Functioned as an Architect, responsible for the requirements definition, analysis and architecture of an EAI solution. Facilitated JAD sessions with the client and produced an Application Blueprint in UML.

Business Edge Systems (1990 – 1999)

Began as a junior programmer and grew to become a skilled architect and project manager with management responsibility for a number of mission critical projects at blue chip companies in South Africa. Assisted with the formation of a division of the company focused on Object Oriented Client Server and Web development projects. Lectured on Object Orientation and the UML at the University of the Witwatersrand.

Assignments:Lead Architect (December 1998 – October 1999) (VB/VC++/SQL Server)

Functioned as the Lead Architect, responsible for the analysis, estimation, design and architecture of an e-Business application for a large insurance company. Developed technically complex infrastructure components (including a persistence framework and web server). The system was successfully implemented in October 1999.

Lead Architect and Project Manager (February 1998 – November 1998) (VB/VC++/SQL Server)

Functioned as the Lead Architect and Project Manager with full life cycle responsibility for the development of a site operations management and accounting system for an entertainment company. The system was successfully implemented in incremental phases from April 1998 through October 1998.

Designer and Team Leader (April 1996 – January 1998) (VB/VC++ Oracle)

Functioned as a Designer and Team Leader, responsible for the analysis and design of various sub-systems within a mathematically complex system for a mining company. Responsible for JAD facilitation, analysis, design, estimation, planning and management of a team of 5 developers. Responsible for all aspects of client relationship management.

Designer and Team Leader (April 1995 – March 1996) (Natural Construct)

Functioned as a Designer and Team Leader. Responsible for requirements through development management of one of the sub-systems at a pension fund administrator.

Designer and Team Leader (July 1993 – March 1995) (MF COBOL/C/x86 Assembler)

Functioned as Designer and Team Leader, responsible for analysis and design, including JAD facilitation. Assumed management responsibility and design and development of the technical infrastructure of the system for a clothing retail company.

Programmer (June 1991 – June 1993) (CICS/COBOL/VSAM/C)

Functioned as a Programmer. Promoted to Analyst Programmer in 1992.

Junior Programmer (December 1990 – May 1991) (C OS2/PM OS2/DB2)

Functioned as a Junior Programmer. Designed and developed the technical infrastructure.

Industries:

Internet Messaging, Internet Retail, Small Business Administration, Insurance, Financial Services, Human Services, Entertainment, Mining, Government, Clothing Retail, Financial Markets.

Hardware:

PC (Linux / Windows), Mac(OS/X), HP Midrange, IBM Midrange, IBM Mainframe

Software:

Scala, Java, Node.js, Groovy, C#, Javascript, CoffeeScript, PHP, Ruby, Bash, AngularJS, Stylus, JADE, ExpressJS, Grails, Rails, ReST, JOGL, MySQL, PostgreSQL, Redis, HornetQ, Jetty, Netty, Rackspace, Joyent, Amazon S3/EC2/RDS, Google Cloud Services, IntelliJ, Specs2, Mocha, Liquibase, Maven, GIT, Linux, OS/X

C#, ASP.NET MVC, NHibernate, Castle Windsor, .NET 3.5, SQL Server, Visual Studio, NUnit, Liquibase, Windows

Java, Groovy, JavaFX, JavaEE, Glassfish, Netbeans RCP, Swing/AWT, Grails, ReST, SOAP, JAX-WS/JAXB, Facelets, IceFaces, Eclipse SWT, Hibernate, JXTA, MySQL, IntelliJ, Netbeans, Eclipse, Linux, OS/X, Windows, Subversion, Maven, ANT

Java, J2EE, IBM Websphere, JBoss, JMS/MDB, JSF, JSP, Servlets, Eclipse SWT, Struts/Tiles, Apache Tomcat, JAX-WS/JAXB, IBM DB/2, Oracle, Eclipse, WSAD, Rational Rose, CVS, ClearCase, Subversion, Perforce, ANT, Windows Server, Linux, AIX, HP-UX

Visual C++, Visual Basic, IBM DB/2, Oracle, SQL Server, Visual Studio, CVS, VSS, Windows, MS-DOS, Novell

C, COBOL, Assembler, Natural, CICS, VSAM, OS/2 PM, IBM DB/2, Brieve, Borland C++, Borland Assembler, OS/2, MS-DOS, MVS, IMS

Education:**Diploma in Datametrics**

Majored in Electrical Engineering and Computer Science.

1989-1994 University of Southern Africa

COBOL Programming Certificate

1990 Van Zyl and Prichard and Computer User's Counsel.