

Daniel Bryant

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Core Skills

- Java SE - 1.3, 1.4, 5, 6 (6 Years)
- Java EE - J2EE, JEE 5 (6 Years)
 - Servlets, Filters, Listeners, JSP (6 Years)
 - JSTL, EL, Custom Taglibs (3 Years)
- Java J2ME (CLDC/MIDP 2.0) (1 Year)
 - Development experience with RIM Blackberry, Nokia S40/S60 and HTC
- Spring 2/2.5/3 (2 Years)
 - MVC, Security, DAO (Hibernate), AOP, Taglibs, I18n, DWR integration
- Struts 1.3, JSF 1.2 (6 Months)
- Hibernate v3 (3 Years)
 - Core, Annotations, HQL, Caching
- JDBC (5 Years)
- MySQL RDBMS (5 Years)
- Oracle RDBMS (1.5 Years)
- XML/XSD/XSLT (5 Years)
- (X)HTML, JavaScript and CSS (6 Years)
 - Extensive experience with browser compatibility issues
 - Development experience with IE 5.5/6/7/8, FF1/2/3, Safari and Chrome
- Prototype, Script.aculo.us, jQuery, DWR, Google Maps, Google Ajax API (2.5 Years)
- Glassfish v2, SJSAS, Tomcat, Apache Web Server (5 Years)
- Netbeans IDE, Apache Ant, CVS, SVN, Hudson CI (5 Years)
- OO Analysis and Design, UML, Refactoring to Design Patterns (6 Years)
- Training, Lecturing (2.5 Years)

Profile

An IT Consultant specialising in the analysis, design and development of web-based enterprise software applications utilising open source platforms and tools. Has developed real-world business solutions and contributed to all stages of the SDLC in many successful projects, frequently performing multiple roles during the development and deployment cycle. Has also worked in a wide range of environments from large-scale governmental organisations to independent IT start-up companies. Has a genuine passion for technology and enjoys learning new skills and improving current knowledge, which facilitates rapid adoption of new tools and methodologies.

Holds an MSc in Internet Computing, multiple Sun Microsystems Certifications, and is a Certified MySQL DBA. Has an extensive knowledge and demonstrable practical application of Object-Oriented methodologies and software design patterns throughout all application tiers. Excels at leveraging existing frameworks and toolkits, where appropriate, to provide maximum efficiency and functionality. Strong client facing background, and strives to communicate technical topics to all levels of experience and knowledge. Has experience of training and mentoring on a range of topics in both academic and commercial environments. Able to work well as part of a team or on own initiative, including home working (references available).

Key Achievements

- Acted as primary server-side architect, developer and DBA for the initial production application of IT start-up triOpsis Ltd, who were voted by the Guardian newspaper as a “Top 100 tech-media company” in 2009.
- Implemented multiple commercial Web 2.0 applications from the ground-up within teams using an agile methodology, including proof-of-concept apps which have contributed to the acquisition of investor funding.
- Author of successful technology blog, <http://tai-dev.blog.co.uk/>, which receives 1000+ hits per month.
- Successfully published in respected peer-reviewed Journals and presented at several International conferences.
- Invited speaker for the Enterprise Systems Development module within the MSc programme at the Department of Computing, University of Surrey. Delivered lectures/labs across multiple BSc/MSc modules.

Technical Certifications

- Sun Certified Web Component Developer for the Java Platform Enterprise Edition 5 (SCWCD)
- Sun Certified Developer for the Java 2 Platform, using JDK 5.0 (SCJD)
- Sun Certified Programmer for the Java 2 Platform, Standard Edition 1.4 (SCJP)
- Sun Certified Specialist for the Netbeans 6.X IDE (SCSNI)
- Sun Certified MySQL 5.0 Database Administrator (SCMDBA)
- Oracle Certification - Successful completion of 1Z0-001 Introduction to Oracle: SQL and PL/SQL

April 2008 - current **TRIOPSIS LTD (see www.triopsis.com)**

JEE/Web 2.0 Consultant

TriOpsis Ltd uses a SaaS business model to offer Web 2.0 style applications that enable a diverse range of companies to capture and manage visual business information. A mobile phone-based J2ME application is used to capture images, such as point-of-sale merchandise displays or evidence of health and safety incidents, in addition to geographical data and other associated metadata. This data is then transferred via HTTPS to a JEE application which provides a rich and highly dynamic Web 2.0 style front-end allowing the user to view and manipulate data (making extensive use of the Google Maps API), perform statistical analysis and extract business reports. Responsibilities and achievements:

- Primary architect and developer for all JEE code (including Spring Framework and Hibernate) and client-side code.
- Acted as DBA for company MySQL 5.1 databases, including multiple production servers.
- Maintained existing J2ME applications from start of 2009, including the addition of new functionality. Deployed applications to RIM BlackBerry, Nokia S40/S60 and HTC Tyn II.
- Managed and delivered several enterprise web applications within an agile development environment under tight deadlines. This included the company's initial production application, which was deployed to their first paying customer. This ran successfully for 3 months with only minimal maintenance before being upgraded with a new enhanced version.
- Utilised the Spring v2.5 framework to facilitate rapid application development, and implemented persistence using the Spring DAO super classes integrated with Hibernate v3 (with an underlying MySQL database). Made extensive use of Hibernate v3 Annotations on Business Objects, which facilitated automated schema generation in the early prototyping stage when the data model was constantly changing due to end-user requirements.
- Blended Spring MVC, JSP, JSTL, EL, HTML, CSS, Prototype and Script.aculo.us to create highly dynamic Web 2.0 style front-end. Utilised Google Map API extensively to allow users to geographically display and manipulate data captured via the J2ME application.
- Utilised Spring Security (integrated with DAOs) and SSL to secure access to applications.
- Utilised Direct Web Remoting (DWR) to simplify development required for client-side Ajaxian-style requests for data. Integrated DWR into Spring DispatcherServlet Controller, and exposed custom (Java) Application Services to the client-side allowing them to be called within JavaScript as if they were local functions. Ensured all Ajax requests to services were authenticated by intercepting remote method calls using Spring AOP.
- Implemented custom build framework using Ant, Taglibs and jspf files to allow common JavaScript functions and DWR client-side code to be reused across applications. This framework allowed the resulting JavaScript to be automatically obfuscated at build time for production while still allowing easy debugging within the development environment.
- Upon request of new end-user, completely re-engineered core client-side code to support IE5.5/6 (initially the application was designed to run on IE7+ and FF2+ only). Retained full functionality including all Ajaxian-style interaction and Google Maps API integration, with only minor cosmetic differences.

Mar 2007 - Mar 2008 **TECHNOTOMY LTD**

Solutions Consultant

Technotomy Ltd is a business software solutions and training provider, and delivers services to a diverse range of clients from academic institutions, to IT start-ups and corporations. Responsibilities and achievements:

- Worked within a team of consultants where excellent written and verbal communication was essential. Worked closely with clients, including end-users and CEOs, and developed excellent analytical skills and ability to discuss project requirements using both specialist and non-technical terminology.
- Produced a complete range of technical documentation for clients. This included design and architecture overviews (using UML 2.0 and ERD diagrams), review of implementation platforms and toolkits, analysis of hardware and discussion of development team structure.
- Fully responsible for configuring and managing primary client's remote development and production Windows 2003 SE servers via SSH and RDP. Installed and managed GlassFish v2 and MySQL 5.0. Ensured servers were secure and reliable, which included general administration, configuring ports/firewalls, managing security software (Nortons Endpoint) and maintaining remote backups.
- Developed a series of prototype applications for clients, one of which attained investor funding and evolved using a RAD style development methodology into a commercially sold

product. The applications typically utilised JEE 5 and the Spring Framework with custom Hibernate-based DAO classes for persistence. The front-end web pages were implemented using a combination of Spring MVC, JSP, HTML, CSS and JavaScript integrated with DWR.

- Created several suites of application administration pages utilising Struts v1.3 and JSF v1.2. These pages allowed clients to create application users, track activity, view and edit entities and reset the database to the initial deployment state.
- Created and configured several agile development environments, promoting team collaboration, code sharing and defect tracking. This included extensive use of the Netbeans 6.1 IDE and associated features (shared libraries, CVS, custom Ant build scripts) and installation and configuration of issue management software (jtrac).

Jan 2006 -
Feb 2007

DBIT CONSULTANCY

Freelance Web Application Consultant

DBIT Consultancy (the trading name used for self-employed freelance work) offered a range of services for web application design, implementation, maintenance and marketing. Responsibilities and achievements:

- Liaised directly with clients ranging from sole traders, departmental managers and CEOs where excellent written and verbal communication was essential in order to fully understand, agree and deliver client specifications.
- Produced technical and non-technical documentation to a high standard, including mock page story boards, HTML wireframes, site maps and UML diagrams.
- Utilised industry standard tools for web page construction and design work, such as Macromedia Dreamweaver MX, Flash and Fireworks and Jasc PSP.
- Created and maintained extensive amount of JavaScript/JScript code to provide a range of functionality including form-validation, dynamic content manipulation and visual effects.
- Analysed, maintained and enhanced several existing public-facing client websites, including the primary Web Portal for a University Department (adhering to W3C standards).
- Enhanced several websites to ensure cross-browser compliance. Frequently the HTML and CSS within these sites had been created using proprietary tools and had to be completely re-engineered and re-implemented.
- Designed and implemented several bespoke applications using J2EE Servlets, JSP and JDBC, in addition to maintaining several websites utilising CGI Scripting with Perl.
- Responsible for all DBIT Consultancy business activities, including project management, marketing and book keeping.

Sept 2005 -
Dec 2005

VELOSCIENT LTD

Web Application Consultant

Veloscient Ltd is an IT start-up specialising in the development and deployment of clinical software tools, specifically cancer diagnosis and treatment. Responsibilities and achievements:

- Responsible for technical analysis and proof of concept implementation of Veloscient's flagship product – an intuitive browser-based Cancer treatment “journey” planner.
- Produced a variety of documentation which was presented to the Board, including a complex analysis report outlining the problem area, proposed solutions and recommendations.
- Conducted extensive research on existing medical software providers, including the current NHS requirements and data exchange standards. Liaised with senior medical clinicians in order to perform initial domain analysis and requirements gathering.
- Designed and developed an early proof of concept web application of proposed system utilising J2EE and custom JDBC DAO classes integrated with a MySQL database.
- Developed several iterations of front-end web pages, constructed using JSP, HTML and CSS, which were presented to potential investors. The implementation of these screens was challenging as the target deployment environment (NHS hospital PCs) was extremely restricted, for example, preventing the use of JavaScript or Cookies.

June 2004 -
Sept 2004

UNIVERSITY OF SURREY / CANCER RESEARCH UK

Java Consultant / Research Assistant

The Advanced Computation Laboratory (ACL) of Cancer Research UK is responsible for the research and development of artificially intelligent automated medical diagnosis, treatment and agent-based negotiation systems. Responsibilities and achievements:

- Contributed to research within a large EU funded FP6 project, *Argumentation Services Platform with Integrated Components (ASPIC)*.

- Worked within a team of leading European researchers and experienced industrial partners in which good written and verbal communication was essential in order to produce project deliverables and ensure deadlines were met.
- Analysed and modified existing Argumentation Theorem Prover (ATP) software, developed in PROLOG, to enhance functionality and capabilities.
- Designed and implemented a Java-based (J2SE) software wrapper for the ATP application using the Adapter design pattern, in order to facilitate interoperability with web-based Flash user interface. Produced detailed API documentation, including extensive Javadoc.
- Produced and delivered a presentation on the successful results of the work to ASPIC consortium members during a large international conference in Valencia, Spain.

July 2002 -
Sept 2003

**DEPARTMENT OF TRADE AND INDUSTRY (DTI).
LICENSING AND CONSENT UNIT (LCU) - IT SECTION.**

Database / Application Analyst Programmer

The Licensing and Consent Unit (LCU) is a large governmental department responsible for licensing exploration and regulating development of the UK's oil and gas resources. The IT section within LCU was responsible for providing a wide range of applications, services and support and therefore the opportunity to act in a variety of different roles was provided. Responsibilities and achievements:

- Responsible for the analysis, design, implementation and deployment of several bespoke software applications for the department under strict deadlines. Utilised Oracle PL/SQL, custom database procedures and HTML to develop web-based applications which were made available via the DTI's web portal.
- Developed and administered an Oracle 9i database (and associated web-application) to enhance the online recruitment of future employees.
- Participated in the development and testing of a large-scale proprietary XML-based application framework (FOX), implemented using J2EE, XSD and XSLT. The core concept of FOX was to generate data-capture web pages and the required back-end processing/storage functionality using a simple and easily specifiable XML-based language.
- Responsible for training and mentoring new staff in the FOX application framework. This included giving presentations, organising workshops and providing support.
- Developed custom PL/SQL application to extract XML data from the FOX application in order to facilitate Business Objects reporting.
- Gained extensive experience of a range of developer tools, including Oracle JDeveloper, TOAD, XMLSpy and CVS.

Education

Oct 2005 - Present	<p>PhD in Computer Science at the University of Surrey <i>Please refer to http://www.danielbryant.co.uk/publications.htm for details of publications</i> Research Overview: This work explores the development and use of a flexible reasoning component for autonomous software components (agents) utilising a relatively new paradigm in logical reasoning named defeasible argumentation. Additional Responsibilities: Provided teaching support (lecturing, organising lab work and grading) for several BSc and MSc degree modules offered by the department.</p>
Sept 2004 - Sept 2005	<p>MSc with Distinction in Internet Computing at the University of Surrey <i>Awarded University of Surrey IDBS Project Prize 2006 for best performance of the year</i> Subjects Studied: Internet Software Development, Component-based Software Engineering, Network Technologies, Information Retrieval, Security & Cryptography and Grid Computing. Dissertation: Exploring Agent-based Argumentation Dialogue Games (Java J2EE).</p>
Sept 2000 - May 2004	<p>BSc with 1st Class Honours in Computing and Information Technology at the University of Surrey</p>
Secondary Education	<p>3 GCE A Levels: Computing, Mathematics, Physics. 10 GCSEs.</p>

Personal Information

Date of Birth: October 1980	<ul style="list-style-type: none"> • Professional Member of the British Computer Society (MBCS). • Member of Professional Contractors Group. • Director of Tai-Dev Ltd. (Tai-Dev Ltd holds Professional Indemnity, Public Liability and Employers Liability Insurance. Details available on request). • Full Clean UK Driving Licence. • Security Clearance SC Level. <i>Lapsed End 2003.</i>
Marital Status: Single	
References available on request	