David Bonnell

3 Barn Croft Drive, Reading, Berkshire, RG6 3WE

0772 558 9468   dbonnell@me.com

A **Software Architect and Developer** with a career of successful design and development of award winning software products, **blue chip** employer.

- Won internal **awards** for innovation, outstanding achievement and performance
- Granted several **US patents** and have multiple patents pending
- Work recognized by multiple **industry awards**
- Equally comfortable as a **software architect** or with hands-on software development **leading a development team** or as an **individual contributor**
- Enjoy working in a team but am **self-motivated** and can work independently with little guidance

Always looking for the opportunity to build new software solutions or extend existing solutions in exciting and innovative ways.

Owner/Software Developer   June 2009 – present
Bonnell Technology Pty Ltd, Reading, UK

Self-employed software developer engaged in various Rich Internet Application (RIA) projects using Adobe Flex, PHP + amfphp, MySQL, including hosting services (high availability Linux infrastructure) for SaaS delivery.

- Developed a hosted (SaaS) multi-product, multi-channel online insurance quotation RIA for Aon Affinity BVBA in Belgium.
- Developed a hosted (Saas) RIA framework for non-interventional/observational medical studies and implemented several such studies based on the framework for MPI BVBA in Belgium.
- Developed a cost model visualization RIA for ING Belgium to allow senior management to visualize internal (inter-department) cost allocations and/or charge-backs from existing modelling data extracted from Acorn Systems software.

Architect / Corporate Architect   2000 – June 2008
BMC Software, USA/Australia/UK

Asked by CTO to come back to BMC Software to address technical issues and delays with major software projects and provide technical leadership.

Architect   June 2005 – June 2008
BMC Software Ltd, Egham, UK

Relocated to UK (self-initiated). Senior developer of BMC Dashboards for Business Service Management.

- Senior Flex/Java developer, instrumental in developing the first two releases of BMC's first RIA, an enterprise dashboard for Business Service Management that was the Adobe MAX Award 2007 finalist for Rich Internet Applications
- Designed and prototyped innovative solutions for complex technical problems with current and new BMC products that resulted in the filing of 5 US patent applications
  - o Dynamic Folding of Listed Items for Display (11956498)
  - o Dynamic Compression of Systems Management Data (11956498)
  - o Impact Propagation in a Directed Acyclic Graph (11956507)
  - o Impact Propagation in a Directed Acyclic Graph Having Restricted Views (11956522)
  - o Service Model Flight Recorder (12123779)
- Awarded "Innovation Award" for innovative thinking, excellent performance and overall contribution

Corporate Architect   March 2002 – June 2005
BMC Software Pty Ltd, Australia
Stepped down as chief architect of Distributed Systems Management BU to relocate back to Australia and focus on research and prototyping of new products.
- Developed prototype system for automatic determination of abnormal values for application and system key performance indicators
- Developed prototype system for predicting estimated time to failure of key application and system performance indicators
- Developed prototype management solution for VMware using the private beta version of VMware's Web Service based VirtualCenter SDK.
- Developed automated load balancing solution for blade servers in conjunction with Fujitsu's Autonomic Computing Division in Tokyo, Japan

Corporate Architect   November 2000 – March 2002
BMC Software Inc, Houston, Texas, USA
Relocated to USA. Working for the Office of the CTO, drove technical direction for the Distributed Systems Management Business Unit (>500 employees).
- Drove major new version of BMC PATROL to release following several years of the development team struggling with performance, scalability and other technical problems
- Designed and drove release of BMC Distribution Server
- Architect and lead developer of BMC Service Monitoring Platform, a complex, multi-tier distributed application providing a real-time Business Service Management solution for UBS CH
- Architect and lead developer of an innovative (patent pending), automatic load-balancing solution for Sun Enterprise 10000/15000 servers
- Lead security review and FIPS certification of BMC PATROL and also contributed to an internal course on development of secure code
- Senior member of BMC's Architect Council and Patent Review Committee
- Awarded "Significant Invention Award" and "Topgun Recognition Award"

Director/Senior Consultant, Bonnell Technology Pty Ltd, Australia   1986 – 2000
- Kept on retainer by BMC Software, developed various software solutions for BMC and other clients
Product Author, BMC Software Inc, USA   1984 – 1986
- Relocated to USA following acquisition of PATROL Software
- Architect and lead developer for BMC PATROL v3.0
- Granted two US patents on PATROL (5,655,081 and 5,978,594)
Lead Developer, PATROL Software Pty Ltd, Australia   1992 – 1994
- Lead developer for PATROL Agent and OS Knowledge Modules

Training and Development
- Advanced Adobe Flex development

Skills
- Adobe Flex/AS3 (4 years, advanced)
- Java (3 years, advanced)
- C (10+ years, expert)
- C++ (< 2 years, intermediate)
- X11/Xt/Motif (5 years, advanced)
- Scripting languages: Perl, PHP, PSL, shell (10+ years, advanced)
- Databases: MySQL, Oracle, Derby (5+ years, intermediate)
- OS: HP-UX, Solaris, AIX, DYNIX/ptx, Linux, Windows (10+ years, advanced)

- Web: HTML, XSL/XSLT, CSS, JavaScript (10+ years, advanced)

Education

Bachelor of Science, 1st Class Honours in Computer Science   1987 – 1990
James Cook University, Australia

Personal Details

DOB: 6th September 1969   Married to Judith with two children

Interests

- Gardening: Enjoy tinkering in the garden
- Badminton: Play social badminton, one to two times a week
- Camping: Keen camper but sadly haven't managed to get away for a while