Bruce Alderson

Software architecture, design, and development.

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http://napkinware.com (portfolio)

I manage successful software projects and teams, working in dozens of programming languages, tools, and platforms. I design and build robust, large scale web services, server applications, industrial data collection systems, and high performance business objects. And after all these years I still love doing it.

Experience

Architect/CTO, Discovery Software; B.C. — 2004-2014 *(10+ years)*

At Discovery Software I focus on profitability, product design and development, senior consulting services, and training. Our product lineup includes web services, mobile applications, and desktop applications aimed at educators and administrators. We build software to save people time, keep them safe, and to help them improve how they work.

Responsibilities:

‣ Chief software developer and co-architect, responsible for system/UI design, implementation, project management, and review.
‣ Software development and IT management, managing systems, strategies, and IT budgets.
‣ Sr. Consultant, providing technical leadership for partner companies
‣ Technical and management training (internal and external)
‣ SRE&D technical consultant

PHP, Javascript, AngularJS, JQuery, Java, C#, C/C++, Objective-C, Perl, Python, Ruby, Pascal.

AWS (Amazon cloud), MS Windows Server 2000+, OS X, iOS, Android, BlackBerry, Windows Mobile, Linux, QT.

MySQL, MSSQL, SQLite, Oracle, Postgress, Progress.

Sr. Architect, Triant Technologies; B.C. — 1996-2004 *(8 years, 2 months)*

I started at Triant out of university, where I was challenged by the industry and the teams though the rigour of embedded and enterprise systems. I focused on the design and development of data collection and analysis infrastructure, including embedded and enterprise systems built in C, C++, and Java for tracking and tuning semiconductor manufacturing quality.

Responsibilities:

‣ Software Architect, Sr. Software Developer
‣ Software Developer, Technical Team Lead

C/C++, Java, Perl, Python, PHP, Javascript.

Microsoft Windows, OS 7, Linux, HPUX, Tru64, WinCE.

Realtime/semi-realtime, serial communications, TCP/IP.

Oracle, MSSql, Postgress, MySQL.

XML, HTML, CSS.

Contract development and consulting; B.C. — 1996-2014

I also consult and craft software on contract. In the last few years I've focused on web applications visual design.

Interesting projects:

‣ Online training system (PHP, Javascript, CouchDB)
‣ Embedded controller for a collision detection system (VxWorks/C++)
‣ Embedded protocol drivers (C/C++, TCP/IP)
‣ NL parser libraries (Perl, Javascript, PHP)
‣ Classroom trainer and speaker (C/C++, software design methodologies, web design techniques, marketing techniques, little languages, regex, and SEO ethics)

Education

‣ BSc UFV (1995)
‣ ACM member since 1998