

Bryan Mann

Architect, TCP/IP, Data and Network Security, Unix Automation Specialist

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Executive Summary

Results driven **senior architect**, highly skilled in broad scope system analysis and solution design. Strategic and tactical leadership skills. Defined and implemented early versions of IBM's **on-Demand technology** for small business. Able to inspire and manage large, 15-30 person teams of architects, engineers, system test, sales and marketing staff. Deep experience simplifying complex user interface and server management applications. Corporate, small business technology infrastructure and security specialist. International project management and partnering experience.

Areas of Expertise

Solution Design

- UML, OMT, Design Patterns
- Linux, FreeBSD, Solaris, Win2000 Workstation, Server, Windows OS 32 bit API
- Websphere, DB2, Tomcat, MySQL
- Embedded systems design, implementation
- Custom protocol design, implementation
- HTTP, SMTP, FTP, RPC, CORBA, SSL, PKI, routing, packet filters, application gateways
- C, C++, Java, Perl, PHP, sh, TCL/TK
- Lex, Yacc, CVS, Make, gnu development tools, xUnit, X-Windows client/servers, java servlets, java server pages, CGI 1.1
- Low level OS, scheduler, device drivers, multi-cpu, multi-threaded network servers.

Business Skills

- Product Definition
- Customer Support
- System Integration Analysis
- Risk Assessment
- International Team Management
- Cross Functional Team Management
- Budget Management
- ERP
- Disaster Recovery Planning
- Mentoring
- Infrastructure specification and build
- Experienced tele-worker

Employment History

IT Architect/Tech Lead, Quantum Corp., Irvine CA, Austin TX, Jul. '04 – Mar. '05.

- Provided architecture guidance to system management team, identified technology and methods to implement appliance management services for Quantum Corp's continuous data protection appliance.
- Designed and implemented XML command message router. Responsible for message structure, low level command handlers/daemons, unit test framework, automated test execution utilities. Constructed on Linux RedHat 9, using CVS, bk, XML(Gnome), sqlitedb. Worked 100% off-site, used email conference calls and net meeting technology for written, verbal and telecommunication to management and executive staff, attended occasional eng. work-group meetings in San Jose, and Irvine, CA.

IT Architect, IBM, International Global Services, Foster City CA, Austin TX, Sep.'97 – Mar. '04.

- Provided **lead architect** services to IBM's divisions, partners and customers. System analysis, design and implementation. Create system designs, schedules, plans and budgets for necessary human, software and hardware resources to implement finance, self-help, manufacturing, CBT training and e-business systems on time and under strict budgetary controls.

- Developed organizational processes and infrastructure to assist development teams in implementation and ongoing support and evolution of system solutions. Provided training and mentoring to development teams, defined security policies and procedures for applications, defined workgroup process and work flow for large geographically remotely teams. Leveraged development teams and management procedures to yield \$4 million savings over various solution lifecycles.
- Major technologies utilized, UML, Rational Rose, RedHat Linux, Websphere, DB2, J2EE, Windows2000 professional, Windows 2000 Server, Oracle, Microsoft office, VPNs.

Chief Architect, IBM Global Small Business Division, Services Delivery Platform, Foster City, CA, Aug. '97 – May '01

- Reported to GM and VP eng. Presented strategic and tactical on-Demand white papers, presentations to IBM research fellows, 2nd and 3rd tier executive staff to capture and lead market opportunities in on-Demand, autonomic and grid computing. Resulted in the design, implementation of phase I of the services delivery platform(SDP). SDP included the ability to manage software applications, bill in micro-payments, dynamically configure applications based on usage patterns, report application usage patterns and other telemetry to IBM's test and customer service centers whenever problems occur.
- **Lead architect** for a team of 7 engineers and 2 technical writers tasked with creating the services delivery platform. Designed UML models, wrote white papers and designed custom protocols to support on-going development and environments for one time and subscriptions services. Embraced the eXtreme programming model. Traveled to India to establish working relationships with IBM engineering employees to shorten development cycle.

Internet Applications Manager, Architect, Tech. Lead, Whistle, Foster City CA, Mar '96 – Feb. '01

- Worked closely with the V. P. of engineering, CTO and product marketing to identify key applications and infrastructure technologies required in next generation InterJet, www.whistle.com. Architected WhistleWare's(tm) Java implementation of NDCP protocol for use in network appliance configuration and management, C++ GUI widgets and display management libraries, integrated services framework/library, and localization/internationalization framework/library.
- Managed 3 individual contributors to InterJet email, services, networking, user interface. Responsible for project plans, schedules, infrastructure, hiring, firing, employee reviews, acting architect for high profile partner meetings with customers and strategic partners. Architect, single point of contact for IBM due diligence team during their purchase of Whistle Communications Corp.
- Designed and implemented 2 of 6 InterJet software agents, mail and webmaster. Agents provided simplified server/application management interface to InterJet end users. Web browser used to connect to all server management features. Embedded legacy mailservers in a thin server appliance.

Application Programmer, Kernel Programmer, System Administrator, Jul '83 – Feb '96

- **ScanOptics**, Ported scanning utility, 68k assembly, C/C++. Ported **Storage Tek's** Automated Cartridge Tape Library Server, testware, to Solaris 5. SVR4 kernel, **ICL's** advanced dev. group, device drivers, tape utility extensions, virtual disk utilities, OS optimization, multi-cpu scheduler, custom source control developer, source control admin., kernel dump analysis, bug fixes. New Mexico State Univ. Eng. Dept., system administrator VAX11780, seminars, trained professors and grad students, maintained systems, print queues, job control, security. **DOD** contractor, kernel/application programmer, design, implement multi-cpu Unix SVR3, military simulation models, Fortran 77.

Education

Bachelor's of Science Degree, Computer Science, NMSU, Las Cruces, New Mexico, May 1987.