

John K. Byrne

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Objective

Software Engineer embracing this principle:

“Elegance is not a dispensable luxury, but a quality that decides between success and failure.” - Dijkstra

Work History

NVIDIA Corporation Santa Clara, CA
Vista Driver Development Intern Summer 2008

- worked on a team that emphasized quality through frequent code reviews and peer feedback
- debugged kernel mode Vista display drivers compliant with the WDDM using WinDBG
- implemented test cases and a supporting framework targeting specific driver functionality
- implemented core functionality in a driver branch targeting future hardware
- enhanced and debugged extensions for WinDBG to streamline driver debugging efforts

Lawrence Livermore National Laboratory Livermore, CA
ISCR Technical Intern Summer 2007

- developed a multithreaded daemon in C++ to handle NetFlow (UDP) packet streams for the Information Protection Support Organization
- utilized POSIX threads and a configuration file parser generated using flex and bison
- supported dynamic reconfiguration with signal handling and mark and sweep garbage collection
- presented the project at a symposium at the end of the summer

University of Wisconsin - Center for Limnology Madison, WI
Database Application Programmer Summer 2006 - Spring 2007

- developed a C# .NET application allowing scientists to take real-time measurements of living organisms using a camera attached to a microscope, following the MVC architectural pattern
- developed servlets and portlets for the Apache Tomcat container and Gridsphere JSR168 portal

Athena Services, Inc. Appleton, WI
Technical Support Specialist (Level 2) 1999-2001, 2002-2005

- provided on-site and telephone support and handled problems escalated by other technicians
- developed several web-based tools to facilitate troubleshooting, increasing productivity

Education

University of Wisconsin - Madison Madison, WI
BS in Computer Sciences, expected spring 2009

- **Courses:** Discrete Math, Linear Algebra, Compilers, Operating Systems, Algorithms, Databases, Networking, Computer Graphics, Computer Game Technology, Information Security, Computer Architecture, Bioinformatics, Artificial Intelligence, Statistics and Markov Chains
- **Languages:** Java, C, C++, C#, Perl, PHP, BASH, SQL, HTML, CSS, XML, Javascript, L^AT_EX
- **Other:** competed in the ACM International Collegiate Programming Competition four times

Appleton West High School Appleton, WI
High School Diploma, 2003