

DANIEL A. PRYDEN

Software Engineer II



Educational Background

Red Hat Certified Engineer (RHCE)
CompTIA A+ Certification

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Professional Experience

Mr. Pryden joined STI in 2003 as a Computer Programmer. In August 2010, he was promoted to Software Engineer II. He has extensive experience designing and developing various data management and data processing systems. His expertise includes dependency-ordered and distributed process scheduling systems, data manipulation tools, web application development, web services and service-oriented architecture (SOA), object-oriented (OO) design and programming, and geospatial information services (GIS) programming. Mr. Pryden has more than nine years of professional experience in programming, computer technology, and technical writing.

Since joining STI, Mr. Pryden has contributed to the ongoing enhancement and maintenance of many projects related to the U.S. Environmental Protection Agency's AIRNow system, including web services to facilitate data interchange, and the AJAX-based interactive web mapping tool AIRNow Navigator, a cutting-edge AJAX-based interactive web mapping tool that allows users to spatially and temporally navigate a large (100+ million records) data set. For the AIRNow Mapper project, he helped design and implement a distributed parallel dependency-based scheduling system written in C# for managing the large-scale GIS processing needed to produce maps and geospatial data products from AIRNow data.

Mr. Pryden was instrumental in the development of version 3.0 of the BlueSky Framework, a model management system designed to facilitate the interoperation of various fire and smoke numerical models. He worked closely with clients to design a highly flexible, yet easy-to-use, framework for interconnecting diverse models in experimental or operational configurations, led a development team to produce an implementation written in a combination of Python, C, and Fortran, and developed a successful cross-discipline, cross-team process for feature requests, bug-tracking, source control, nightly builds, and release management. Mr. Pryden also worked with a scientific advisor to develop the SMARTFIRE system, a GIS-based algorithm for reconciling different fire information data sets, and then designed and implemented in Java a highly object-oriented software architecture following software design patterns. In appreciation for his work on the BlueSky Framework and the SMARTFIRE system, Mr. Pryden received a Certificate of Merit from the USDA Forest Service.

From 1998 to 2003, Mr. Pryden worked as an independent consultant, primarily in web site design. His assignments included graphics design, HTML and JavaScript creation, and Perl and C++ programming, as well as basic technical training and assistance. Before joining STI, Mr. Pryden was the primary Technical Content Creator at a public relations agency where he developed and edited articles about Java and Unix programming and general technical issues for industry journals, including *Dr. Dobb's Journal*, *EE Times*, and *Java Developer's Journal*. He also has experience as a computer technician.

Mr. Pryden has expertise in the following programming and markup languages: C, C++, C# (.NET Framework 1.1-3.5), Java (J2SE 1.2-1.6), Python (2.1-2.5), Visual Basic (VB4.0-VB.NET), JavaScript (1.0-1.5 [ECMA-262 3rd Edition]), ColdFusion (5.0-7.0), and SQL (including Oracle PL/SQL and Microsoft T-SQL). He also has expertise in XML and the web markup languages HTML and CSS, as well as shell scripting experience on various Unix/Linux platforms. He holds the RHCE (Red Hat Certified Engineer) Linux certification as well as more than 15 Hewlett-Packard technical certifications.