

ALAN N. HEALY
Software Engineer



Educational Background

B.Eng., Computer Engineering, Athlone Institute of Technology, Ireland
B.Eng., Software Engineering *Honors*, Athlone Institute of Technology, Ireland

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Professional Experience

Mr. Healy joined STI in 2007 as a Software Developer in the Web Services Group. In August 2010, he was promoted to Software Engineer. His primary duties involve web-based project application development, operational support and monitoring, and quality assurance. Mr. Healy's recent projects include development of the Smoke and Emissions Modeling Intercomparison Project (SEMIP) and BlueSky Playground for the U.S. Forest Service (USFS), and the Interagency Fuels Treatment Decision Support System (IFT-DSS) user interface for the Joint Fire Science Program (JFSP).

Mr. Healy was a lead developer of EnviroFlash (www.EnviroFlash.info), a nationwide air quality email notification system sponsored by the U.S. Environmental Protection Agency (EPA). He implemented key upgrades to the system's regional forecast emails and automated Twitter postings, and added RSS, ATOM and Common Alerting Protocol feeds. He also has a key role in monitoring and maintaining the operational status of EnviroFlash. Mr. Healy worked on a number of other websites for EPA and state and local air quality agencies, for example, AIRNowTech.org for EPA, SpareTheAir.com for the Sacramento Metropolitan Air Quality Management District, and CleanAirPartners.net for the Metropolitan Washington Council of Governments.

Mr. Healy developed web services for the EPA AIRNow and AIRNow-International projects including both Simple Object Access Protocol (SOAP) and Representational State Transfer (REST) structures. He worked on geospatial Web Coverage Services (WCS) conforming to Open Geospatial Consortium (OGC) standards, with outputs for viewing data in web-based map displays (e.g., Keyhole Markup Files [KML] overlaying Google Maps).

Prior to joining STI, Mr. Healy worked on several projects while completing an Honors degree in Software Engineering. One project involved development of a Java-based Instant Messaging system using the existing network of open-source Jabber servers and Jive Software's Smack API. This system integrates with a number of messaging systems, such as Google's GoogleTalk Instant Messaging system.

Mr. Healy has experience in numerous programming and markup languages: Java, C++, ColdFusion, JSP, PHP, .NET/C#, HTML, XHTML, XML, XSLT, CSS, SQL, ASP.NET, Prolog, and 8051 Assembly. He also has experience creating relational databases using Microsoft Access and SQL Server as well as experience with a number of web servers (e.g., Apache, Tomcat), platforms (e.g., Microsoft Windows 2000/XP/VISTA, Linux) and design/development tools (e.g., Eclipse, Netbeans, Dreamweaver).