
Educational Background

B.S., Computer Science, Bowling Green State University

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Professional Experience

Mr. Amador joined STI in 2009 as a Software Developer in the Web Services Group. He has extensive experience designing and developing web-based software using a variety of technologies.

Mr. Amador developed web services for the U.S. Environmental Protection Agency's (EPA) AIRNow and AIRNow International projects. He developed these web services in a Representational State Transfer (REST) structure, and he produced both standard and geospatial web services (Web Coverage Services) conforming to Open Geospatial Consortium (OGC) standards. Mr. Amador configured the web services to produce useful outputs such as XML, CSV, NetCDF, and KML (viewable in Google Earth and Google Maps).

Mr. Amador developed a web-based modeling tool for the Federal Highway Administration. This tool enables planners to evaluate how changes in land use and future growth affect travel activity and CO₂ emissions, ultimately affecting climate change. Mr. Amador developed a Geographic Information System (GIS) in the application to enable selecting areas, viewing associated data, and saving scenarios.

Mr. Amador created a web application for the Joint Fire Science Program's (JFSP) Smoke and Emissions Model Intercomparison Project (SEMIP). This application enables intercomparison and evaluation of a number of fire smoke and fire emissions models.

Mr. Amador developed back-end software for sending mass emails from the EPA EnviroFlash air quality notification system (www.EnviroFlash.info). The software is capable of quickly retrieving large numbers of spooled emails (approximately 100,000 at present) and sending them out through an SMTP server.

Prior to joining STI, Mr. Amador was responsible for the design and development of the front and back ends of numerous web applications. He also had the responsibility of gathering business requirements, performing unit testing, and writing technical documentation in support of the full software development life cycle. While working at Exel Global Logistics, he was involved in developing web-based software to manage shipment data for internal customers and provide reports to external customers. More recently, he developed and administered internal and external websites for GreenPoint Mortgage and created software for loan processing.

Mr. Amador has experience in a variety of programming and markup languages including ASP.NET, C#, MapServer, GDAL, VB.NET, Java, JSP, C, C++, SQL, Javascript, XML, HTML, XHTML, XSLT, CSS, and AJAX. He also has experience developing and administering multiple relational databases (Microsoft SQL Server, Oracle, MySQL), as well as experience with a variety of web servers (IIS, Apache, Tomcat), platforms (Microsoft Windows 98/2000/XP/Vista, UNIX), and design tools (Visual Studio, Eclipse, Crystal Reports).