

Sean W. McGinnis

Experience

2012-Present University of Maryland Center for Cambridge, MD
Environmental Science

Database Manager

- Designed and implemented a web-based scientific data management platform using ASP.Net and MS SQL that features geospatial search, graphing, and metadata management.
 - Analyzed data for Gulf Integrated Spill Research (GISR) project, generating a unified hydrocarbon database of over 8 million readings for use in ground-truthing model output.
 - Designed, implemented, and supported custom purchasing framework for UMCES IMET Laboratory using ASP.Net and MS SQL.
 - Co-Authored two papers addressing the data management and technical framework for creating and utilizing the GISR database.
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2007-2012 Cambridge International Cambridge, MD

Senior Software Engineer

- Heavily customized Microsoft Dynamics CRM using ASP.Net, VB.Net, C#, Javascript, and SQL Server, including custom forms, integration with legacy ERP system, a custom ASP.Net/Flash dashboard, and custom workflows and workflow steps.
 - Conceived, designed and implemented web-based, collaborative scheduling program with Silverlight, ASP.Net, WCF Web Services, and SQL Server.
 - Implemented online product estimating program with ASP.Net, C#, Javascript, WCF Web Services, and SQL Server.
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2002-2007 ArtisTech, Inc. Fairfax, VA

Lead Research Developer

- Primary Investigator on two Army Research Tasks, leading a team of 2 to 5 developers. Duties included designing and implementing research software, presenting at conferences, coordinating with external researchers, and writing proposals, white papers, and reports.
 - A Java intelligent agent-based environment for integrating prototype technologies and algorithms into an integrated experimentation environment.
 - A Java distributed surveillance and tracking tool using diagrammatic reasoning and software agents in an interactive mapping environment.
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1998-2001 Internet Pictures Corporation Oak Ridge, TN

Software Development Engineer

- Developed plug-ins for several architectures, including Internet Explorer (ActiveX), Netscape Navigator, and RealNetworks multimedia platform.
 - Designed and implemented major re-architecture of multimedia viewing application.
 - Developed end-user applications in Visual C++ and Java.
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Education

1993-1998

Massachusetts Institute of Technology

Cambridge, MA

Master of Engineering, Bachelor of Science

- Computer Science and Electrical Engineering, concentrating on Artificial Intelligence and Computer Graphics. Minor in Creative Writing.

Skills

- Expert in customizing Microsoft Dynamics CRM, developing plugins, custom workflows and workflow steps, designing and implementing custom user dashboard applications, customizing forms with JavaScript, and integrating CRM with third-party software and custom web applications.
- Proficient with Microsoft .Net platform for WPF, Console, and Web-based applications, including C#, VB.Net, WCF Web Services, Silverlight, JavaScript, and Microsoft SQL Server.
- Proficient with PHP, JQuery, HTML 5, and AJAX for development of interactive n-tier web applications.
- Previous experience with Java, Visual C++, and Lisp.
- Strong oral and written communication skills; author of several technical papers and whitepapers; extensive experience delivering presentations and software demonstrations to stakeholders.
- Extensive experience working with non-technical staff and domain experts to design, implement, test, and refine custom software solutions for engineering, infrastructure, sales, and scientific applications.

References

References are available on request.