David P. Murphy — full stack .NET developer

6423 Cygnet Drive (703) 855-4004

Alexandria, VA 22307 dpm\_CopperRiver@myths.com

# DEVELOPMENT Skills

coding C#, HTML5, CSS3, JavaScript, jQuery, JSON, Ajax, bootstrap, .NET Framework, EF, LINQ, SQL, PHP, C

operating systems Windows, Linux (CentOS), various flavors of unix (Solaris, HP/UX, AIX), OpenVMS

web servers Apache, IIS

databases SQL Server, MySQL, RMS, SSMS (front end), HeidiSQL (front end) . . . **no Oracle**

browsers Chrome, Edge, Firefox, IE

source control Git, Subversion (with Tortoise & Ankh), cvs, CMS

tools Visual Studio, TeamCity, AWS, Azure Portal

methodologies Agile Scrum, TDD

management Azure DevOps, JIRA, Confluence, Microsoft Teams

# EDUCATION

1982-1984 University of Florida, Gainesville, FL (B.S.B.A. in Computer Science)

# CLEARANCES

5/2016 – present active Secret (from DOS)

3/2008 – 3/2013 TS/SCI (from DHS)

# EXPERIENCE

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| 1/2020 – present | **Senior Software Developer** | Copper River Enterprise Services |
|  | I am the lead designer and developer of two .NET MVC web applications for the Department of State (one is partially public <http://iocareers.state.gov> while the other is financial data, entirely internal) which were desperately in need of modernization — for example, both were making database calls directly from the controllers, and neither had auditing or exception logging. I’ve improved them drastically while simultaneously adding features and fixing bugs. This is a small team — just me, one QA engineer, and a part-time tech writer — so I usually write the *Requirements* and *Release Notes* documents myself, working one-on-one with the Product Owners, and I have a large degree of control over design decisions. I’ve also updated both to comply with government rules (e.g., boundary protection) and single sign-on (via Okta).* Internal communications: Microsoft Teams, Outlook
* Document sharing: SharePoint
* Sprint planning and tracking: Azure DevOps
* Source control: Git repositories with develop/release/feature/hotfix branches
* Build management, continuous integration, and deployment: Azure Pipelines
* IDE: Visual Studio Professional 2017 on Windows 11 Pro
* Database: SQL Server 12.0, SSMS v18.9
* Platform: Azure (App Service)
* Web server: IIS 10.0
* Framework: .NET 4.7.2
* ORM: Entity Framework 6.4.4 using LINQ
* Back end: C# with JSON
* Front end: MVC (with Razor view engine), bootstrap, JavaScript with jQuery and Ajax, CSS
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| 4/2015 – 12/2019 | **Senior Web Developer** | Easy Dynamics Corp. |
|  | I was the lead designer and developer of a new 508-compliant web application named “HSIN Exchange” for the Department of Homeland Security’s Information Network to modernize the request-for-information system then in place. I spent a large amount of time working directly with the Product Owner: helping her develop requirements, gaining feedback on my designs, and advising her as to what would & would not be practical. I created the database schema; I coded the controllers, the business logic layer, and the UI; I implemented reports, multi-tiered role-oriented user management, distribution lists of recipients, audit trails, data exporting (to PDF, Word, XML), pop-up notifications of new tasks, automatic purging of personal data in accordance with legal requirements, and data entry forms customizable by admins in real-time. It went live in July 2016 and is used by hundreds of law enforcement agents across the country. I later enhanced the application to support more agencies, each of which had their own specifications, into the existing schema. An independent performance test verified latency of 2-3 seconds for over one hundred simultaneous users, with 0.01% errors.* Methodology: Agile Scrum (two week sprints) with grooming meetings
* Internal communications: Skype and Microsoft Teams
* Document sharing: Confluence
* Sprint planning, enhancement and defect tracking: JIRA
* Source control: git repositories with release/feature/bugfix/hotfix branches
* Build management, continuous integration, and deployment: TeamCity
* IDE: Visual Studio 2012 & 2015 & 2017 on Windows 7 & 10
* Database: SQL Server 2012 & 2016 on IIS with SSMS, SQL Profiler
* Framework: .NET 4.5
* ORM: Entity Framework (version 5 & 6) using LINQ
* Back end: C# with JSON
* Front end: MVC (with Razor view engine), JavaScript with jQuery, CSS, bootstrap, signalR
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| 10/2008 – 1/2015 | **Senior Web Developer** | Fishbowl, Inc. |
|  | I was hired despite knowing nothing at all about the Microsoft stack or development environment. After ramping up those skills, I added a role-based user authentication/authorization layer to one of the existing products, followed by license enforcement/management modules. I then assisted implementing enhancements and fixing defects in multiple products, in every phase (database, back end, & front end). I was part of them which converted our ASP.NET applications to MVC. I spent the next four years designing, developing and maintaining a new product from scratch: database schema (tables, views, stored procedures & functions), data encapsulation & business logic layers, controllers, and the user interface including a customizable data-driven menu navigation. I constantly monitored code commits for quality & commenting, and frequently worked alongside employees in other departments to ensure that the production applications were not just useful but intuitive and complete.* Methodology: Agile Scrum (two week sprints)
* Internal communications: AIM
* Document sharing: Confluence
* Enhancement and defect tracking: TFS
* Source control: subversion (I migrated the code from SourceSafe)
* Build management, continuous integration, and deployment: CruiseControl
* IDE: Visual Studio 2008 & 2010 on Windows 7
* Database: SQL Server 2008 & 2012 on IIS with SSMS
* Framework: .NET 3.5 & 4.0
* ORM: Entity Framework using LINQ
* Back end: C# with JSON
* Front end: ASP.NET, MVC (with Razor view engine), JavaScript with jQuery, CSS, Telerik UI
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7/2007 – 10/2008 Senior Programmer/Analyst Focus Technologies

5/2005 – 2/2007 Systems Programmer, System Administrator Sightline Systems

10/2000 – 5/2005 Systems Programmer EMC

6/1998 – 10/2000 Systems Programmer, System Administrator AC Technologies

 (later part of Camber Corporation)

 (acquired by Huntington Ingalls)

8/1993 – 6/1998 Systems Programmer, System Administrator, Support Datametrics Systems Corporation

 (later Fortel Inc.)

 (now SightLine Systems Inc.)

4/1984 – 7/1993 Applications Programmer, Systems Programmer NPRI, Inc. (later Versatility, Inc.)

 (acquired by Oracle)