

Name:	Matthew Hanna	Labor Category:	Software Engineer
Address:	Alexandria, VA 22309	Phone:	626-344-9463
Email:	Contact@MatthewHanna.net	Website:	https://MatthewHanna.net
Education:	Clemson University, M.S., Theoretical Computer Science Coastal Carolina University, B.S., Computer Science with Mathematics Minor		
Objective:	A challenging but quiet software engineering role involving creativity and learning.		
Professional Summary:			
Strong programming knowledge in C# implementation using Requirements, Specifications and Constraints Strong experience in employing Unit Testing (MSTest, xUnit, NUnit) as part of the System / Subsystem Design Training and extensive experience developing applications and services for remote clients with limited contact Strong algorithm design skills in Object Oriented Programming (OOP), SOLID, and Software Development Life Cycle (SDLC) Experience with cross-platform transmitting, converting, and processing of real-time data from various sources Roles included Software Engineer, Full Stack Developer, Software Analyst, User Consultant, and Technical Support			
Skills Summary:			
Databases: Microsoft SQL, SQLite, MySQL, PostgreSQL, Access, and Redis OS: Microsoft Windows, Linux (Ubuntu, RedHat / RHEL, CentOS, Fedora), Microsoft Server, and Android Programming Languages: C# (Framework, Standard & Core), HTML, CSS, SCSS, JSON, JavaScript, SQL, XML, Typescript, Python, Java Servers: IIS, IIS Express, Docker, Node.js, Apache, and Custom Frameworks: MVC, ASP.Net (Core), Razor, React, WinForms, WPF, WF (Windows Workflow Foundation), WCF Protocols: HTTP, HTTP2, REST API, OAuth2, SAML, TCP, UDP, .Net Remoting, gRPC, RS232, WAMP-proto			
Training / Certifications:			
Microsoft Power Apps, ASP.Net Core, ASP.Net MVC, Migrating to Micro-services, UML Essentials, Web Applications, React, Presenting Presentations, Problem Decomposition			

**Cherokee Federal, 2 W. 2nd St., Suite 1500, Tulsa, OK 74103**

**Programmer Analyst II : March 6, 2023 to May 31, 2025**

- **USGS.** WARC contractor for legacy internet services conversion to modern services and maintenance in Microsoft Power Apps, C#, ASP.Net Core, Entity Framework Core including scaffolding, SQL, HTML, JavaScript, CSS / SCSS, and Gulp. Limited usage of third-party libraries was stated as a requirement so many custom variations were created. Plenty of team work on projects.

**TrustedQA, 11800 Michael Faraday Dr, Reston, VA 20190**

**Senior Software Engineer : July 26, 2021 to June 23, 2022**

- **Spalding AIBI.** NavAir contractor for software maintenance and improvement. Worked with Microsoft C# .NET Framework and Core, SQL, HTML, CSS, SCSS, JavaScript, XML, JSON, React, Node.js, Gulp, Docker, Jenkins, OpenShift. Lots of team work on projects.

**Omnigo, 10430 Baur Blvd St. Louis, MO 63132**

**Senior Software Engineer : August 26, 2020 to July 21, 2021**

Internet services development and maintenance in C#, ASP.Net Core, Razor, Entity Framework including scaffolding, SQL, HTML, JavaScript, CSS, and Gulp. Experience with Redis using StackExchange Redis .Net client and AWS Cloud storage upload. Client API integration with TraQ6 and TraQ7 for import and export. Team was a pleasure.

**Department of Navy, 575 L Ave Ste 1, Point Mugu, CA 93042**

**Computer Scientist, DP-4 : January 22, 2019 to November 22, 2019**

Filling various roles with the Naval Air Warfare Center Weapons Division (NAWC-WD) for developing, maintaining and converting code to .Net and micro-services for future improvements that will assist those who serve our country.

- **E2-C/D.** Helping to maintain JMPS software add-ins, eventually converting to .NET and the future goal of moving to micro-services.
- **SPEAR.** Supported with DotNet Core experience, micro-services development and worked toward utilizing Kafka as a repository and eventual replacement for a large dynamic database. Tasks included fully understanding micro-services architecture, documenting important design patterns & standards, orchestration, messaging, logging, monitoring, utilization of Docker in both Linux and Windows environments, and planning for testing via unit-testing, integration testing, and end-to-end testing.

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**Smartronix, Inc., 770-828 Paseo Camarillo, Camarillo, CA 93010**

**Software Engineer II : August 15, 2015 to January 21, 2019**

Supported ETIRMS with the Naval Air Warfare Center Weapons Division (NAWC-WD), Point Mugu, CA. Performed software engineering with Agile for supporting various Navy aircraft, weapons systems, and other existing or newly developed applications and tools. Tasks included designing and integrating new external interfaces (supporting multiple clients, vendors and platforms), VB6 conversion to C#, code analysis, requirements analysis, unit testing, debugging, use case creation, and regular expressions. Utilized C#, Java, VB6, C/C++, WinForms, WPF, IDL, COM, XML, SQL, MSTest, Microsoft Word, Access, Excel, PowerPoint, and Visual Studio 2005- 2017, Unity3D HoloLens, SharePoint, Rational Rose, ClearCase, and Great Migrations.

**AeroVironment Inc., 900 Innovators Way, Simi Valley, CA 93065**

**Software Engineer II : February 1, 2011 to September 30, 2013**

Performed software design, programming, and maintenance in C#, VB.Net, C, and C++ for various existing and newly developed applications. Handled maintenance and implementation of FalconView Map Application plugins used for communicating with simulators and actual Small Unmanned Air Vehicles (SUAVs) using serial, UDP, and TCP protocols both open and proprietary. Developed object-oriented flight simulators in C# and Unity3D. Created various software libraries (DTED, UDP packet communications, and debugging/testing tools) and helped develop a unique, simple to use, GIS desktop application supporting dozens of map types and geo-referenced entities. Implemented programming libraries based off ICDs, RFCs, and white papers. This job also included working with embedded Linux and Windows operating systems.