

Matthew Graham

.NET Framework ★ NodeJS ★ Python ★ PowerShell

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QUALIFICATIONS SUMMARY

- Software Developer with 6+ years of comprehensive experience in software development using Visual Studio through multiple programming languages. Knowledgeable in emerging technologies as well as business principles and processes. A considerate and innovative individual who has a good sense of teamwork to get results by instilling commitment, accountability, fairness, and loyalty.

TECHNICAL SKILLS

- **Programming Languages:** .NET, NodeJS, Python, Javascript, PowerShell, PHP, Java
- **CI/Testing:** NUnit, Selenium, BrowserStack, Jenkins
- **Web Frameworks:** ASP.NET WebForms, ASP.NET MVC, ExpressJS, CodeIgniter
- **Databases:** Microsoft SQL, MySQL, PostgreSQL
- **Virtualization/Containers:** VMware ESXi, Docker, VirtualBox
- **Version Control:** Mercurial, Git, SVN
- **Process:** Kanban, Agile

PROFESSIONAL EXPERIENCE

2013 - **Software Developer**, *BirdDog Software*, Oklahoma.

- Present
- I was a part of a team dedicated to developing a framework and web interface to simplify and automate procedures that typically would be painful in Exact's Macola ERP Manufacturing software. When I was brought on we were focused on updating our ecommerce software to support responsive design through the use of Zurb Foundation and we utilized KnockoutJS to drastically improve responsiveness for our clients and their ecommerce customers. Afterwards we focused on updating our customer service and enterprise software to utilize ASP.NET MVC with KnockoutJS controllers to build dynamic and responsive CRUD pages.
 - Wrote an email parser that ensured all emails generated by the software contained absolute URLs would be reachable by the recipient.
 - Implemented a wrapper in .NET to support using TinyMCE as a ASP.NET WebForms control to turn any textbox into a WYSIWYG editor for HTML content.
 - Built a clientside item/category search page with browser history state handling and page caching in KnockoutJS that would display items and categories as two separate result columns or a single column depending on what was returned.
 - Implemented ElFinder (<https://studio-42.github.io/elFinder>) to support uploading files and images to the website through a direct control or through TinyMCE.
 - Added support for drag and drop table column grouping to SlickGrid javascript grid control. (<http://slickgrid.net/>).
 - Technologies got to work on: ASP.NET, KnockoutJS, Javascript, PowerShell, Selenium, NUnit, Microsoft SQL, Jenkins

GITHUB PROJECTS

- **JonBons/Sublime-SQF-Language** - [2012]
 - Wrote one of the first TextMate syntax highlighters for the SQF scripting language used by Arma 3's Real Virtuality 4 game engine with over 15K installs.

- **JonBons/arma3updater** - [2014]
 - Wrote a daemon to watch for new Arma 3 game update blog posts and would query for online servers and wait until all players had left the server before stopping the service and triggering a server update and finally sending an email to notify myself of the new version with the changelog notes included in the email.
- **JonBons/SpotifyToGMusic** - [2016]
 - Wrote a tool to push a shared Spotify playlist to my Google Play Music account, this was done by pulling in all songs in the Spotify playlist and then doing a search for the same songs on Google Play Music and adding the most closely matched song to the Google Play Music playlist.

OTHER PERSONAL PROJECTS

- [2012] Built an administration panel in PHP utilizing CodeIgniter framework for managing a private community's Arma game servers via integrating with FireDaemon's command line interface by generating XML documents to import into FireDaemon which installed/uninstalled windows services per the XML docs.
 - Image album: <https://imgur.com/a/ad13Nwp>
- [2013] Wrote a tool utilizing .NET's HTTP server to send remote console commands to the Arma game server coming in via JS generated POST requests coming from the PHP admin panel I built.
 - Image: <https://i.imgur.com/Wi6UGyZ.png>
- [2013] Wrote a tool that parsed log files generated by Arma's BattleEye anti-cheat engine and detected and banned users that execute non-trusted scripts and it would send an email notification to myself and other administrators with the details of the ban.
 - Image: <https://i.imgur.com/gNXmddR.png>
- [2015] I became interested with modded content for the Arma 3 game engine and in finding out if some mods had a larger performance impact than others or compared to the stock/vanilla content, so I wrote an SQF script that would go through all weapons, vests, and uniforms in the game and log the mean FPS while using a particular item, this was then processed via PowerShell and output into a CSV file that I imported into Google Sheets to review and generate some graphs of the data and in turn I found out a particular mod had a major performance impact in comparison to the other mods I was testing.
 - Link: <https://tinyurl.com/arma-mod-impact>
- [2018] Setup a Grafana instance with InfluxDB on a VPS and wrote an RPC server in NodeJS to intake data from the Arma 3 SQF scripting language and insert it into InfluxDB to later be graphed in Grafana.
 - Image: <https://i.imgur.com/JOpUGjq.png>
- [2019] I help run a Counter-Strike: Global Offensive captain picked 5v5 team 10 man group and we recently switched to using FACEIT's Hub system to host our matches but we've gotten complaints about how the 2 highest ranked players are always the captains so I built a bot that adjusts each player's ranks based on their personal stats and overall win/loss stats and allows for randomized captains within each rank group to fix the issue of same 2 people always becoming the team captains. Another stage of this was developing a Discord bot that would post the current rankings and allow for players to be notified of new matches or look up their or other player's stats. This was built in NodeJS utilizing ExpressJS to receive webhooks from FACEIT, Selenium to interact with the role/rank interface on FACEIT, and ChartJS to generate the HLTV rating graphs used for showing a player's recent stats in Discord.

- Image album: <https://imgur.com/a/ziTtrR3>

EDUCATION

2012 **High School**, *Homeschool*.

EXTRA CURRICULAR AWARDS

- Participated in FIRST's FTC and FRC robotics programs for 4 years as a student (<https://i.imgur.com/2dur4Ak.jpg>) and a programming mentor.