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| William Crum  *Developer, Mountaineer, Marine* | [github](https://github.com/elisoncrum) | [linkedin](https://www.linkedin.com/in/william-crum-usmc/) | [personal](https://elisoncrum.dev) |

**Experience**

US Marine Corps | Data Engineer                                                                           3/2022 – Present

13th Marine Expeditionary Unit

*PowerShell, SQL, Windows Datacenter, Microsoft Configuration Manager, Linux Server,*

*Enterprise Security, Exchange, Domain Controllers, Public Key Infrastructure*

* Provided unique solutions to legacy systems.
* Deployed Naval and Marine Expeditionary Units Tactical Networks using Infrastructure as Code­­­.

US Marine Corps | Innovation Team | Full Stack Developer 5/2021 – 8/2021

*Python, Flask, MySQL, React, Tanzu, Concourse CI, Artifactory Actions* Remote | San Diego, California

* Primary backend developer for winning Marine Corps first Inaugural Micro Application Innovation Challenge.
* Developed application to enables Marines to conduct reconciliation and easily display trends of their GCSS-MC status reports. GROOT aggregates a large amount of data into a digestible format and allows Marines to easily report the status of gear.

Defense Digital Services | Backend Developer                                                                         8/2021 – 2/2022

*Python, FastAPI, PostgreSQL, Elastic, AWS Lambda, Github Actions* Remote | Arlington, Virginia

* Helped to develop Project Rabbit which allowed employers to upload and then verify their previous or existing Afghan employees seeking asylum in the U.S during the Afghanistan extraction in August of 2021.
* Developed and advised migration of API transitioning from an Elastic database to a Relationship database.
* Built out unit tests and environments to support developers’ mock production AWS environments.

Marine Coders | Solutions Developer 5/2021 – Present

*Jekyll, JavaScript, HTML* Remote

* Helped to developer, contribute, and collaborate in building an environment for Marines to Innovate within the Fleet Marine Force.
* Contributed to building Marine Corps production websites.
* Marinecoders.usmc.mil, Cloud.usmc.mil, Marines.dev

US Marine Corps | Data Systems Administrator | Secret Clearance 10/2019 – Present

9th Communications Bn | Expeditionary Operations Training Group

*PowerShell, SQL, Windows Datacenter, Microsoft Configuration Manager, Linux Server,*

*Enterprise Security, Exchange, Domain Controllers, Public Key Infrastructure*

* Provided administration, deployment, and evaluation of Marine Corps and Iridium Satellite Data systems to 11th, 13th, 15th Marine Expeditionary Units and Special Purpose Marine Air-Ground Task Force while at Expeditionary Operations Training Group.
* Supporting a myriad of computer and Network Operating Systems to include versions of Linux, Microsoft, and Unix, to enable command and control. Typical duties include active directory administration, Domain Name Service Public Key Infrastructure, Warfighting Systems, Database administration and Unified Communications. Marines will be familiar with command line interface and tools, performance monitoring, client/server configuration, voice and video services, storage administration, virtualization, collaborative tools, and troubleshooting of hardware/software.

**Projects**

(GCSS-MC) Reconciliation Operations Organization Tool (GROOT) | Marine Corps Innovation Team

*Python, Flask, MySQL, React, Tanzu, Concourse CI, Artifactory*

* Application developed alongside the support of supply admin and operations specialists to assist organizations and individuals to conduct reconciliation and easily display trends of their GCSS-MC status reports.

Rabbit | Defense Digital Services

*Python, FastAPI, PostgreSQL, Elastic, AWS Lambda, Github Actions*

* Rabbit allowed employers to upload and then verify their previous or existing Afghan employees seeking asylum in the U.S during the Afghanistan extraction in August of 2021.

Is It Down? | Personal [Source](https://github.com/elisoncrum/is-it-down) | [Demo](https://links.elisoncrum.dev)

*Python, Flask, MySQL, Kubernetes, Linux, Web Sockets*

* Developed to assist DoD personnel to track, manage, and inquire statuses of APIs, websites, and applications across the entire DoD IL2 space. Provides real time statuses of websites and their availability.

**Qualifications**

**Languages**: TypeScript, Python, C#, SQL, Rust, PowerShell  
**Technologies**: Git, Docker, NoSQL, AWS, DevSecOps, Bash, Elastic

**Awards**: Winner of 2018 CS@Mines Programming Competition Meritorious Mast (2020), Certificate of Commendation (2021), Navy Marine Corps Achievement Medal (2021)­­­­, Winner of Inaugural Marine Corps Micro Application Innovation Challenge (2021)

**Education**: Red Rocks Community College Computer Science 101, Marine Corps Communication-Electronics School – Data Systems Administrator Course

**News and Publications**

**Marine Coders Build App to Transform Readiness Reporting | Fed Scoop Article**

*-* [*https://www.fedscoop.com/marine-coders-build-app-to-transform-readiness-reporting/*](https://www.fedscoop.com/marine-coders-build-app-to-transform-readiness-reporting/)

**Innovation Challenge Winner | Phoenix Cast Podcast Guest**

*-* [*https://open.spotify.com/episode/6bqy9z59Henl0nlvuc9Kdq?si=bLeXjFkyQ0W2MyTRUs62IA*](https://open.spotify.com/episode/6bqy9z59Henl0nlvuc9Kdq?si=bLeXjFkyQ0W2MyTRUs62IA)

**Association of Marine Corps Logisticians Symposium 2021 | Guest Speaker**

**-** <https://www.amclsymposium.org/>

**2021 Inaugural Micro-Application Development Innovation Challenge Results | Official Marine Corps Document**

- <https://www.marines.mil/News/Messages/Messages-Display/Article/2815694/>

**2021 Marine Coder Innovation Challenge Winner! | Article**

- <https://marines.dev/announcements/news/Marine-Coder-Innovation-Challenge-Winner/>