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## CLIFF DUFFEY

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### About: Software Engineer / Security Engineer

Cybersecurity engineer turned software engineer, motivated by the desire to start building software instead of breaking it. Driven to apply my security-focused mindset towards protecting user data and ensuring privacy in developing software that users love.

### Skills

Python | Linux | JavaScript | MySQL | Active Directory | ICAM | Git | Azure | Kubernetes | Security Testing

### Software Engineering Experience

#### Software Engineering Immersion

March 2022 – June 2022

General Assembly | Remote

Engaging in a 13 week, 500+ hour software engineering immersion program gaining experience in front-end and back-end programming using Python, JavaScript, and other development technologies. Developed projects include:

- Express Secured: A Single-Page Application (SPA) written in ReactJS, with a Python Django REST API, and Postgresql that provides users with a static analysis scanning capability for their NodeJS Express applications
- Magic the Gathering Deck Builder: MongoDB Express React Node (MERN) stack app that provides users with the ability to create, import, export and manage Magic: The Gathering trading card game decks
- Sixty-Three: A full stack web app that allows users to track which National Parks they've visited, rate and comment on them, as well as view other user profiles. Designed using ER diagrams and Figma for wire-frames, and implemented using the MongoDB Express NodeJS (MEN) stack

### Other Professional Experience

#### Project Lead

September 2021 – January 2022

Qbase, LLC | Chantilly, VA

- Directed a team of six engineers and ensured customer satisfaction with the operation of the their Identity Management (IdM) and Single-Sign On (SSO) solution for an organization with over 7000 users
- Provided technical expertise to manage the design, development, test, and deployment of enhancements for the organizations Identity Management (IdM) tool suite: SailPoint IIQ, SiteMinder SSO, and CyberArk PAM

#### Cybersecurity Lead

September 2020 – September 2021

General Dynamics Information Technology (GDIT) | Falls Church, VA

- Performed security testing and assisted in vulnerability remediation for a ICAM solution that included SailPoint IdM, RadiantLogic LDAP and PingFederate SSO that supported SAML and OpenID Connect protocols
- Provided technical guidance to 15 engineers for security controls implementation for the ICAM implementation based on NIST 800-53 controls framework and DISA STIGs within a Kubernetes containerized environment

#### Cybersecurity Consultant

February 2015 – September 2020, July 2006 – February 2014

Harl C Duffey, LLC. | Alexandria, VA

- Performed threat modeling, manual code reviews, and vulnerability testing to secure a custom ASP.NET Core web application hosted in Microsoft Azure based on FedRAMP/NIST 800-53 controls frameworks
- Defined and validated mobile app security requirements using automated tools and manual source code reviews for a Xamarin SDK that helped developers build secure iOS/Android medical apps within DoD
- Deployed and hardened Active Directory based environments compliant with DoD security standards
- Regularly conducted network and web application vulnerability scans in order to identify vulnerabilities in the system and prioritize remediation efforts for a globally deployed backbone network management at a DoD agency

#### Senior Data Security Analyst

February 2014 – February 2015

Science Applications International Corporation (SAIC) | Arlington, VA

- Designed and implemented an ELK stack audit solution over three months to aid in the analysis of operating system, database, and application security logs
- Enhanced software security over one year through integrating threat modeling, web application scanning, and code reviews into the software development process

### Certifications

ISC2 CISSP (2006) | Microsoft Azure Security Engineer (2022) | Certified Kubernetes Application Developer (2022)

### Education

General Assembly, Certificate

March 2022-June 2022

Georgia Institute of Technology, B.S. Computer Science

June 1998-May 2003