**Molly Isaac**

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**SUMMARY**

Enthusiastic and hard-working young professional with exceptional academic credentials pursuing a career in the national defense and cyber-security industry.

**EDUCATION**

**Washington University in St. Louis Arab American Language Institute in Morocco (AALIM)**

Major: Computer Science; Minor: Arabic Course: Intensive Arabic language

GPA: 3.98; Dean’s List all semesters GPA: 4.0

Graduation: December 2021 Summer 2019

Selected Coursework: Analysis of Algorithms, Object Oriented Software Development, Software Engineering Workshop, Introduction to Computer Security with a Capture the Flag Studio, Recent Advances in Computer Security and Privacy, AI and Society, Intro to Data Science

**PROFESSIONAL EXPERIENCE**

**Cyber Software Engineer, Lockheed Martin Aeronautics Division Mar 2022-Present**

**Software Engineering Intern, Lockheed Martin Aeronautics Division May-Dec 2021**

* Surveyed current literature on topics relating to information fusion, track prediction, and correlation to propose an algorithm for a research project
* Restructured a database using PSQL and Kubernetes
* Worked remotely during the semester on projects to search the GitHub pages of opensource software and display results in Excel

**Calculus Residential Peer Mentor, Head RPM (Fall 2021) Aug 2019-Dec 2021**

* Coordinated eleven other Calculus RPMs
* Facilitated interaction between RPMs, the Learning Center Staff, and the professors
* Hosted six tutoring hours weekly for students in Calculus II
* Taught and clarified concepts from the lectures
* Incorporated homework help, concept understanding, and test preparation for students with different learning styles

**Computer Security Research Assistant Jan-May 2021**

* Researched ways to incorporate the blockchain into energy usage to enhance cybersecurity of the power grid under guidance of a professor
* Used Hyperledger Fabric and Raspberry Pi Arm v7 architecture

**Teaching Assistant for Data Structures and Algorithms Sept-Dec 2020**

* Led a group of students through weekly studios on new material
* Guided them through new material and answered conceptual questions

**Social Analytics Executive Leader, Department of Veterans Affairs Sept-Dec 2020**

* Oversaw a team of six analytics interns to ensure they understand and complete their assignments in a timely manner
* Analyzed the Department of Veterans Affairs’ social media accounts to better serve the veteran community, using Social Studios and Google Analytics
* Cooperated with other departments to acquire new projects for my interns

**National Security Intern for Wesley Hunt Jul-Oct 2020**

* Analyzed national security issues and political topics pertaining to Texas’ 7th US Congressional District
* Composed three briefs every week to inform the campaign staff on major issues that affect the district
* Focused on the developments of the peace process in both Afghanistan and Israel, the escalating tensions with China, the latest threats to election security, and the development of new military technologies

**RELEVANT SKILLS**

* CompTIA Security+ Certification – December 17, 2021
* Technical Skills: Proficient – Java, C++; Beginner – C, Python, Racket, Prolog, HTML, x86-64
* Language Skills: Proficient – Modern Standard Arabic; Beginner – Darija (Moroccan Arabic)

**PROJECTS**

**Hungry Hungry Hippos --** <https://samfenske.itch.io/hungry-hungry-hippos> **Aug-Dec 2021**

* Designed a multi-player video game version of Hungry Hungry Hippos using Unity and C#
* Implemented the keyboard as the control of the hippos, with the option of connecting a physical controller via Bluetooth that controls both hippos simultaneously

**Niche App --** <https://github.com/vkalil/437_NicheApp.git> **Jan-May 2021**

* Designed an application that groups users into communities of common interest based on zip code
* Implemented using React Native and Firebase

**Personal Website --** <https://mollyisaac.github.io/molly-isaac/index.html> **Aug 2020**

* Built from scratch using HTML and CSS, and hosted on GitHub Pages

**Tic-Tac-Toe and Gomoku in C++ Mar-May 2020**

* Developed both games as two player games that ask each player to take turns until a player wins, the game is a draw, or either player quits
* Implemented using object-oriented programming and polymorphic inheritance

**ACADEMIC ACHIEVEMENTS AND AWARDS**

* Scholarship for Women Studying Information Security (SWSIS) (2021)  
  An award given by the Applied Computer Security Associates and the Computer Research Association to increase representation of women in the cyber-security workforce.
* St. John’s School Gold Presidential Community Service Award (2014-2018)  
  1,372 hours of service throughout high school
* St. John’s School H. Scott Caven III Memorial Scholarship (2018)  
  One of the two highest awards at St. John’s School, awarded for a passion for learning, teamwork, good sportsmanship, humility, compassion for others, positive attitude, integrity strong work ethic, and a drive for excellence in academics, athletics, and leadership

**EXTRACURRICULAR ACTIVITIES**

* WashU Women in Computer Science member (2020-2021)
* WashU Run Club member (2018-2021)
* ESL Tutor at Maplewood Richmond Heights High School (Jan-Mar 2020)
* Army ROTC (Jan-May 2019)