**Molly Isaac**

[molly.isaac@wustl.edu](mailto:molly.isaac@wustl.edu) (713) 907-3276 [linkedin.com/in/molly-isaac](https://www.linkedin.com/in/molly-isaac)

**EDUCATION**

**Washington University in St. Louis University of Missouri in St. Louis**

Major: Computer Science; Minor: Arabic Course: Programming Languages

GPA: 3.99; Dean’s List all semesters Grade: 4.0

Graduation: December 2021 Summer 2020

**Arab American Language Institute in Morocco (AALIM) St. John’s School, Houston**

Course: Intensive Arabic language GPA: 98.06

GPA: 4.0 Diploma May 2018

Summer 2019

Selected Coursework: Analysis of Algorithms, Object Oriented Software Development, Software Engineering Workshop, Recent Advances in Computer Security and Privacy, Reverse Engineering and Malware Analysis

Selected Electives: Diaspora in the Jewish and Islamic Experience, Modern Islam, Nuremberg Trials and International Justice, Introduction to Jewish Civilization, Terrorism and Counterterrorism, Hebrew (Fall 2021)

**RELEVANT SKILLS**

Technical Skills: Proficient - Java, C++, React Native; Beginner - C, Python, Linux, OOP Design

Language Skills: Proficient - Modern Standard Arabic; Beginner - Darija (Moroccan Arabic)

**PROJECTS**

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

* Designed an application that groups users into communities of common interest with others that live nearby
* 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

**PROFESSIONAL EXPERIENCE**

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

**Computer Security Research 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

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

* Coordinate eleven other Calculus RPMs
* Facilitate interaction between RPMs, the Learning Center Staff, and the professors
* Host six tutoring hours weekly for students in Calculus II
* Teach and clarify concepts from the lectures
* Incorporate homework help, concept understanding, and test preparation for students with different learning styles

**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 Leadership Team, Dept of Veterans Affairs Sept-Dec 2020**

* Oversaw a team of six analytics interns and three analytics departmental leaders 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

**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 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, LEADERSHIP, AND VOLUNTEERING**

* WashU Women in Computer Science member (2020-2021)
* WashU Run Club member (2018-2021)
* ESL Tutor at Maplewood Richmond Heights High School (January to March 2020)
* Army ROTC (Spring 2019)