Awad Shahadat

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SKILLS

Programming Languages: C, C#, Python, Java, JavaScript, Dart, SQL; **Tools:** GIT, Linux, Docker, AWS; **Libraries:** JQuery, Flutter, REACT, Google Apps Script, Google Maps, Flask, ASP.NET Core, OpenCV, Cypress; **Extras:** Agile, UI Design, MVC architecture, AWS Lambda; **Awards:** Winner of RAMHACKS 2019 and HACKBI 2018, Dean's List

EDUCATION

George Mason University—Bachelor of Science in Computer Science — **Fairfax, VA**
Aug. 2018 - May 2022

WORK EXPERIENCE

Costar Group — *Software Engineer Intern* — **Washington, D.C**
June 2021 - Aug. 2021

- Developed on a very large React codebase. Optimized data fetching of images by 33% within Public Record Application, resolved bugs with image fetching with GraphQL, created tests with Cypress Testing Framework. Created FEMA flood layer visualization within Costar Suite, utilizing a quadkey based shape service and Google Maps JavaScript API.
- Developed Python script to verify data validity.

Claims Resolution Management Corporation— *Software Engineer Intern* — **Falls Church, VA**
Aug. 2020 - June 2021

- Creating an internal Help Desk application to improve efficiency and productivity of our I.T. department. Produced REST API with C#, ASP.NET Core, designed SQL database, deployed on IIS web server. Detail oriented UI with REACT js, redux.

Data Machines Corp— *Software Engineer Intern* — **Ashburn, VA**
May 2020 - Aug. 2020

- Developed Android and web application for biometric collection (NXGBCC) contract for the United States Army.
- Created API calls on Flask server in python, designed UI/UX using Flutter framework, optimized the Android application and I/O devices to increase battery life by 23%, among other features. Experienced with Docker, MVC, websockets, agile.

Claims Resolution Management Corporation— *Software Engineer Intern* — **Falls Church, VA**
June 2018 - May 2020

- Created an 'Employee Dashboard' web application that serves as a billing and time management solution.
  - Programmed with JavaScript, used Google Sheets as a database, along with FullCalendar API to view entries in a calendar format, as well as HTML & CSS with BootStrap for the frontend.
  - Led to 100% decrease in incorrect billing entries
- Developed an windows console application in C# to search for unencrypted SSNs on the computer and network drives. Optimized with parallel looping to decrease the time to find and encrypt SSNs from ~3 hours to just 30 minutes.
- Wrote python scripts to automate tasks for virtual machines in Red Hat's OvirtSDK.
- Refactored 25 reports from Crystal Reports to MS Reporting Services with C#, and msSQL. Responsible for ~6000 lines of SQL. Optimized queries to improve processing time by 40%. Wrote testing and QA documents for each report.

PERSONAL PROJECTS

Volume Estimation of an Object - Computer Vision — *June. 2021*

- Estimates the volume of an object using several multi-view stereo images around the object. Has a multitude of applications from construction workers measuring a pile of dirt, to individuals measuring food portion sizes. Programmed with Python with OpenCV. Full paper available upon request.

Where's The Corona — *March 2020*

- go.gmu.edu/corona (Previously WheresTheCorona.com) Web Application tracks COVID-19 cases around the world.
- Designed the clean UI, developed with Flutter Web Framework. Utilized Google Maps JavaScript API to display data, and Google Analytics to track user data. One of the first COVID trackers to be released. Had more than 1000 users**.**
- Utilized website traffic to raise over 2,000 pounds of nonperishable goods for food banks. Featured on the front page of George Mason's website, and on George Mason's social media. Helped to raise $500,000+ for Mason Giving Day campaign.

Amazon Alexa Skills — *June 2017 - January 2018*

- Created three applications ("Skills") for Amazon's personal assistant 'Alexa'. All were deployed on AWS Lambda, developed with Python. Awarded Amazon Echo devices and awards from Amazon. 5000+ users.