MUHAMAD ELASSAR

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EDUCATION

**University of Central Florida Orlando, FL**

*Bachelor of Science in Computer Engineering, GPA: 3.7* Expected May 2021

* Pegasus Scholar, Bright Futures Scholar, Dean’s List (every enrolled semester)
* Relevant Coursework: Operating Systems; Database Systems; Programming Languages; Comp. Science 2; Comp. Architecture; Object Oriented Programming; Embedded Systems; Digital Systems; Discrete Structures; Enterprise Applications; Calculus III; Electronics I

INDUSTRYEXPERIENCE

**Leidos Orlando, FL**

***Software Engineer Intern***June 2019 – Present

LMV Mapping (2020), Active Secret Security Clearance

* Designed, developed, and tested React application that meets accessibility and browser standards for website.
* Reduced bandwidth usage by 25% by implementing map tile caching in order to maintain network performance.
* Leveraged Microsoft Azure cloud services within the LMV web app for improved storage scalability.
* Hands-on experience working within an Agile team and practicing Scrum life cycle practices.

Internal Research and Development, TSD (2019)

* Developed tool using Docker to containerize and deploy software to devices connected through AWS IoT.
* Implemented hooks into the TSD React application; reduced number of re-renders by 75%.
* Created service within Linux environment to synchronize files between local and AWS EC2 instances.
* Built a RESTful API using Node.js, MongoDB, and GraphQL.

**Amadeus** **Orlando, FL**

***Application Developer Intern***September 2018 – May 2019

Flight Information Display System (FIDS)

* Rewrote web application utilizing Angular w/TypeScript which increased productivity and code readability.
* Created reusable automated tests utilizing Nightwatch.js; resulted in shorter code validation time.
* Utilized Git for software configuration management and version control.
* Worked within an Agile environment.

PROJECT EXPERIENCE

* **CtrlFlow** (2020). An IoT thermo-system which allows users to control different temperatures throughout a home using a single air conditioning unit. A mobile application was built for the user interface. C++, React Native, AWS, GraphQL
* **FitVerse** (2020). Fitness tracking application where users can add workout events to a calendar that can be synchronized with friends, allowing users to follow a workout schedule together. Node.js, React, Express, MongoDB
* **KnightKonnect** (2020). Contact management website geared towards networking with other students on campus. Users can create an account, add contacts, and share their profile with others. JavaScript, HTML/CSS, PHP, MySQL
* **Cache Simulator** (2019). Memory cache simulator that calculates the number of memory-writes and reads a given memory access pattern executes. C

ADDITIONAL INFORMATION

* **Programming Languages:** Java; JavaScript; TypeScript; C; C++; SQL; HTML; CSS; Python (Prior Experience); PHP (Prior Exp.)
* **Technologies:** Git; Unix/Linux; Node.js; React; MongoDB; MySQL; Eclipse; Atlassian Suite (Jira, Bitbucket, Confluence)
* **Spoken languages:** English – Native, Arabic – Fluent