

MUHAMAD ELASSAR

1332 Amaryllis Cir, Orlando, FL 32825 • elassarm@outlook.com • 407-575-1491

[in www.linkedin.com/in/muhamadelassar](https://www.linkedin.com/in/muhamadelassar) • www.github.com/melassar00

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

INDUSTRY EXPERIENCE

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
- **KnightKonnnect** (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