

# Omar Shalaby

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## EDUCATION

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### University of Central Florida

*Bachelor of Science in Computer Science*

Orlando, FL

Aug. 2020 – May 2023

### Valencia College

*Associate's of Arts*

Orlando, FL

Aug. 2018 – May 2020

## EXPERIENCE

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### Full Stack Software Engineer Intern

May 2023 – September 2023

*ADT*

*(Remote) Boca Raton, FL*

- Created an employee database/records permissions management app for internal use using Apex and SOQL for the backend and Lightning Web Components for the front end.
- Designed and implemented features such as editing and saving changes to user roles/permissions, search, and exporting selected rows of data as a csv file in the scope of over tens of thousands of users worth of data for the frontend.
- Developed features in the backend such as initial retrieval of data when entering the site, returning edited employee information once changes are saved in the front end, and creating a risk level column based off employee roles assigned to them.

### Food Runner

June 2018 – May 2023

*Universal Orlando*

*Orlando, FL*

- Delivered food to tables and provide exceptional service to guests by answering questions, while making sure the food accomodated the guests allergies.

## PROJECTS

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### Workout Buddy | *React Native, Node.JS, Express, MongoDB hosted on Azure*

- Created a MERN stack mobile app with a small team that allows users to create, customize, and schedule workouts along with notifying pairs of users that are friends and are scheduled to workout together to encourage finding an exercise partner.
- Designed and implemented front end for landing page, workout/exercise selection, settings, login/register UI using React Native.

### Our Cooking Mama Social Media App | *MongoDB, Express, React, React Native, Node.JS (MERN) hosted on Heroku*

- Created a cooking-based social media app with a team that is optimized to lazy load in recent posts of the accounts the user follows on both web and mobile.
- Optimized lazy loading algorithm to reduced load time roughly 15% for the front end UI to create a more welcoming and interactive UX.

### Contact Manager | *Linux, Apache, MySQL, PHP, JavaScript, HTML, CSS, Bootstrap hosted on Digital Ocean*

- Full Linux, Apache, MySQL, PHP (LAMP) site that handles a user base of 10,000+ users and lets each user create, store, and search through over 10,000+ contacts.
- Implemented a lazy loading algorithm for the front end when loading in contacts when logging in and searching to optimize load times by 12% for a better UX.
- Implemented an interactive and user-friendly UI using HTML, CSS, JavaScript, and Bootstrap.

### ESRB Rating Predictor | *Python, Scikit-learn, Matplotlib*

- A Python program that predicts future games ESRB ratings by training a machine learning model through on 1900 Xbox One and Playstation 4 games' ESRB ratings and the categories that gave them their respective ratings.
- Achieved a 95% accuracy on training data and an average accuracy of 90% on randomly sampled test data.
- Placed in the 96th Percentile out of 300 competitors in a Kaggle data science competition.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, HTML, CSS, C#, Python, Java, C++, MySQL, SOQL, C, PHP, LaTeX

**Frameworks:** React, React Native, Node.JS, Express, Vite, .NET, Lightning Web Components

**Developer Tools:** Git, Vite, VS Code, Visual Studio, IntelliJ, Eclipse, Homebrew, Expo Go

**Libraries:** TensorFlow, Keras, Scikit-learn, pandas, NumPy, Matplotlib, Axios