

# Mustaeen Ahmed

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## EDUCATION

**University of Central Florida**  
*Bachelor of Science in Computer Science*

Orlando, FL  
Aug 2023 - May 2027

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, TypeScript, C, C++, Java, Python, R, SQL  
**Frameworks:** React, Next.js, Node.js, Express.js, Tailwind CSS, Bootstrap  
**Libraries:** NumPy, Pandas, Matplotlib, Flask, Django, OpenCV  
**Tools:** Git, GitHub, MySQL, PostgreSQL, MongoDB, Jupyter Notebook, Figma, OpenAI, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCE

**Software Developer** Jan 2024 - Present  
*Association of Computing Machinery* Orlando, FL

- Collaborated with a team of designers and back-end engineers to develop a site advertising the ACM at UCF.
- Developed an admin tool that allows authorized users to manipulate server data directly from the website.
- Developed a REST API with Node.js and Express to route data from a MongoDB server to the front-end.
- Led and mentored a small group of new developers on several front and back-end technologies during development.

**Information Technology Intern** Jun 2022 - May 2023  
*Orange County Public Schools* Orlando, FL

- Worked on resolving software and hardware issues on 2000+ Windows/macOS computer systems and parts.
- Provided technical support for operating system software for 100+ staff members and 2500+ students.
- Resolved software/hardware issues for 100+ servers by troubleshooting software and repairing hardware.
- Collected information on an inventory of 3000+ devices in Microsoft Excel, and analyzed data to improve technical support performance.

## PROJECTS

**Multi-Wordle** | *React, TypeScript, PostgreSQL, Node.js, Express.js, SCSS*

- Developed a rendition of the popular game Wordle, with the addition of four and six letter game modes.
- Used React components, hooks, and props to seamlessly animate elements and develop core game functionality.
- Used Node.js and Express to query a PostgreSQL database to access 8000+ words and validate answers.
- Utilized algorithms such as Binary Search to efficiently search the database and validate user input, which decreased searching runtime by over 95%.

**Stock Prediction Model** | *Python, Jupyter Notebook, Pandas*

- Built a machine learning model that predicts the rise and fall of the S&P500 Index price with historical data.
- Utilized the Random Forest Classifier algorithm to train the model based on data imported from Yahoo Finance.
- Manipulated and cleaned data by utilizing Pandas data frames and methods to ensure more accurate results.
- Wrote the model in Jupyter Notebook, which allowed for better data visualization and more accurate predictions.

**Naturalization Test App** | *TypeScript, MySQL, Node.js, Express.js, SCSS*

- Developed a quiz app that simulates the civics test given during the U.S. citizen naturalization process.
- Queried a MySQL database with Node.js and Express to access 100+ questions and their answers.
- Used TypeScript and SCSS to seamlessly animate website components and build an attractive UI.
- Tested on a small group of individuals studying for the real civics test; all users from the group passed the exam.

**Weather App** | *HTML, SCSS, JavaScript*

- Developed a web app that allows the user to search for the weather by city, and displayed weather information.
- Utilized the OpenWeather API to access weather data such as temperature, a short description and related icons.
- Seamlessly animated several UI components with SCSS and JavaScript to create an attractive UI.
- Integrated asynchronous programming to efficiently access weather data from the API and handle potential errors.