

Mustaeen Ahmed

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

Orlando, FL

Aug 2023 - May 2026

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, C, C++, Java, Python, R, SQL

Frameworks: React, Next.js, Astro, Node.js, Express.js, Tailwind CSS, Bootstrap

Libraries: NumPy, Pandas, Matplotlib, Flask, Django, OpenCV

Tools: Git, GitHub, MySQL, PostgreSQL, Prisma, MongoDB, Jupyter Notebook, Figma, OpenAI

EXPERIENCE

Software Developer

Jan 2024 - May 2024

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 | *Next.js, React, TypeScript, PostgreSQL, Prisma, Node.js, Tailwind CSS*

- 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 Prisma to query a PostgreSQL database to access 10000+ words and validate answers.
- Utilized the binary search algorithm to efficiently search the database and validate user input, which decreased searching runtime by over 95%.

Music Notes | *Python, GitHub Actions*

- Developed a Python library that allows developers to play piano/guitar music notes in their Python programs.
- Hosted on the online repository PyPi, which allows for instant download with pip, Python's package manager.
- Used GitHub Actions for CI/CD, allowing for automated unit testing, building, release, and deployment to pip.
- Handled pull requests/issues from open-source contributors, and wrote clear documentation for users.

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.