Mustaeen Ahmed

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Education

University of Central Florida — Orlando, FL
Bachelor of Science in Computer Science — *Aug 2023 - May 2026*

Technical Skills

Languages: HTML, CSS, JavaScript, TypeScript, C, C++, Go, Java, Python, R, SQL
Frameworks: React, Next.js, Astro, Node.js, Express.js, Tailwind CSS, tRPC, Bootstrap
Libraries: scikit-learn, PyTorch, NumPy, Pandas, Matplotlib, Flask, Django, OpenCV
Tools: Git, GitHub, MySQL, PostgreSQL, AWS, Prisma, Redis, Docker, MongoDB, Jupyter Notebook, Figma

Experience

Software Engineer Intern — September 2024
Leidos — *Orlando, FL*
- Incoming Fall 2024.

Software Developer — July 2024 - Present
KnightHacks — *Orlando, FL*
- Developed a multi-purpose Discord bot with several useful commands to serve a club server with 3500+ members.
- Pioneered development of several entertainment commands & webhooks, increasing server engagement by 30%.
- Wrote an algorithm which validated event data for announcements, increasing club event attendance by 40%.

Software Engineer — June 2024 - Present
Darden — *Orlando, FL*
- Pioneered the development of several advanced Python applications for use in expediting and automating employee workflows, saving 400+ employee work hours per quarter and reducing quarterly employment costs by $10000+.
- Leveraged several machine learning powered packages such as OpenCV, scikit-image, and PyTesseract for use in robust error handling, decreasing errors by 95%, and increasing application efficiency by 45%.
- Utilized packages such as Pandas, NumPy, and Matplotlib to perform efficient data engineering and develop concise data models, reducing application complexity by 50%, and application runtime by 20%.
- Developed a Java desktop application to streamline the use of our Python applications, improving employee user experience, software portability, and software maintainability by 100%.

Projects

Naavis | *Next.js, React, TypeScript, PostgreSQL, Prisma, Redis, Amazon S3, tRPC, Tailwind CSS, Vitest*
- Developed a location sharing web application which allows users to track locations of group members and devices.
- Wrote an advanced authentication system with TypeScript and Lucia, allowing for third-party and regular sign-in.
- Leveraged Amazon S3 and tRPC queries to store profile pictures and images for efficient retrieval of said assets.
- Used TypeScript and React to create appealing UI components and ensure responsive design throughout.

Multi-Wordle | *Next.js, React, TypeScript, PostgreSQL, Prisma, Supabase, Node.js, Tailwind CSS, Vitest, Docker*
- 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.
- Leveraged Node.js and Prisma to query a PostgreSQL database hosted on Supabase to access 10000+ words.
- Wrote unit tests in Vitest, allowing for testing of UI components, Prisma queries, and TypeScript events.

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, Supabase, SCSS, Docker*
- Developed a quiz app that simulates the civics test given during the U.S. citizen naturalization process.
- Queried a MySQL database hosted on Supabase with Node.js and Express to access 100+ questions and 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.