Ali Hounain

Boston, MA · ali.hounain@gmail.com · (857)-352-9044 · https://ahounain.github.io/portfolio/

Education

University of Massachusetts Boston — Boston, MA
Bachelor of Science in Computer Science — Sep 2020 - Dec 2024

Languages

Java, Python, Golang, SQL, Javascript/Typescript, C/C++, HTML/CSS,

Frameworks & Libraries

React, Next.js, Three.js, Node.js, Flask, Tailwind CSS

Tools

Docker, AWS, GCP, Git

Projects

Emotion Recognition from Speech *Python, TensorFlow, Keras, Librosa, Scikit-Learn*   sentiment-analysis

- *Developed a multimodal deep learning neural network for emotion recognition using the RAVDESS dataset*
- *Implemented a dual-input neural network with Convolutional and LSTM layers to extract acoustic and temporal features*
- *Achieved **90**% **classification accuracy** across 8 distinct emotional states using audio and metadata features*
- *Integrated additional functionalities including language detection and audio transcription*
- *Utilized advanced signal processing techniques with librosa for feature extraction, including MFCCs, chroma features, and spectral analysis*

Super BoxFinder *Next.js, React, Three.js, Typescript, Tailwind CSS*   superboxfinder

- *Developed a web application that optimizes the packaging process at The UPS Store by providing the best box for a given item's dimensions, including diagonal fitting calculations*
- *Implemented a responsive front-end using React and Next.js, with 3D packing visualizations using Three.js to enhance user experience*
- *Super Boxfinder not only reduces shipping costs for customers, but also cuts down customer wait time from new hires by up to 50 percent*

AshOrBrain? *Javascript, HTML, CSS*   ashOrBrain

- *Utilized the MBTA's API to fetch train arrival data to develop AshOrBrain?, a web application that greatly improves the commuting experience for commuters at JFK/UMASS (MBTA Red Line stop).*
- *Accurately calculated the track on which the Alewife train will arrive, a feature not provided by the default predictor*
- *Utilized **JavaScript, HTML, and CSS** to create an intuitive and user-friendly interface, improving the commuting experience for dozens of users*

Work Experience

The UPS Store — Saugus, MA
Manager — *Jan 2018 - Present*

- *Led the onboarding process for new hires and facilitated their assimilation into our work environment.*
- *Managed store's inventory system, and maintained organization of supplies*
- *Troubleshooted and resolved issues with the store's POS system and print computers*
- *Deescalated situations and resolved conflicts among employees and customers*
- *Led several efforts to optimize workplace efficiency, such as creating Super BoxFinder and creating a QR code list of all items in the store that lets new hires easily scan in items into the POS*