

ALI HOUNAIN

Boston, MA · ali.hounain@gmail.com · (857)-352-9044 · ali.hounain.dev

EDUCATION

University of Massachusetts Boston
Bachelor of Science in Computer Science

Boston, MA
Sep 2020 - Dec 2024

SKILLS

- **Programming Languages:** Go, Java, Python, JavaScript, TypeScript, SQL
- **Frameworks/Libraries:** React, Next.js, Three.js, Node.js, Flask, Tailwind CSS, Spring Boot
- **Tools/Cloud:** Docker, AWS, GCP, Git

WORK EXPERIENCE

Liberty Mutual Insurance
Software Engineering Intern

Portsmouth, NH
Jun 2025 - Jan 2026

- Collaborated with Kafka platform team to develop self-service tools and support infrastructure in **Go** and **Spring Boot**
- Architected a project to clean up unused Kafka connectors by designing an event-driven solution using Kafka and AWS Lambda reducing compute consumption by **24 percent**
- Refactored legacy code to enhance readability and maintainability
- Implemented new REST endpoints to our internal tools for our customers which resulted in a **23 percent** decrease in service desk tickets

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