

ALI HOUNAIN

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EDUCATION

University of Massachusetts Boston
Bachelor of Science in Computer Science

Boston, MA
Sep 2020 - Dec 2024

LANGUAGES

Java, Python, SQL, Javascript, Racket, C/C++, HTML/CSS,

TOOLS

Docker, AWS, GCP, Flask, Node, Three.js, Microsoft Office Suite, Git, React

PROJECTS

quake-topomap *Three.js, Javascript, HTML*

[quake-topomap](#)

- Designed and developed Quake-TopoMap, an interactive web application that enables users to easily visualize USGS earthquake epicenter data via an interactive topographic map
- Utilized **Three.js** for 3D modeling, Mapbox's API for the satellite imagery and the USGS API for real-time earthquake data

Heatmap Visualization of Pseudo Random Number Generation Algorithms *C++, Python*
[BoxFinder](#)

- Led team as Scrum master by leading meetings, facilitating sprints, ensuring deadlines were being met, and communicating with client to clarify requirements
- Contributed to the development of the project by implementing the Lehmer algorithm, and Shaded Relief visualization

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

BoxFinder *Flask, Python, Javascript, Docker*

[BoxFinder](#)

- Developed BoxFinder, a web application that optimizes the packaging process by providing the best box for a given item's dimensions.
- Boxfinder not only reduces shipping costs for customers, but also cuts down customer wait time from new hires by up to 50 percent
- Utilized **Flask** for the backend, **HTML** and **CSS** for the frontend, **Docker** for the containerization and deployed using **Google Cloud Run**

WORK EXPERIENCE

The UPS Store
Manager

Saugus, MA
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 BoxFinder and creating a QR code list of all items in the store that lets new hires easily scan in items into the POS