RIYAD ALI

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SKILLS

Languages and libraries: C, C++, Java, JavaScript, React.JS, Node.JS, HTML, CSS, MATLAB, Simulink

Tools and Frameworks: MySQL, Git, Firebase, Heroku, Netlify

Software Used: PTC Creo Parametric, Abaqus, FEA, SolidWorks, Static Analysis, GD&T, CAD, Microsoft Office, MS Azure

Relevant Coursework: Data Structures and Algorithms, Database Systems, Computer Architecture, Discrete Mathematics, Linear Algebra, Probability and Statistics

PROFESSIONAL EXPERIENCE

Amazon Manager, Amazon | Dallas, Texas 05/2019 – 01/2022

- Became manager for front-end of warehouse controlling the flow of the building.
- Always worked with a team guiding everyone to increase efficiency for outbound.
- Worked in a high-pressure area filled with short deadlines.
- Lead a team to control the outbound of the site with high efficiency.

PROJECTS

UTDesign - Automatic Rescue Breathing Unit | Engineering Team Leader | Java | Creo Parametric

- As of September 2021, **Provisional Patent 63/245,093** was filed.
- Utilized **Java** and **C++** to create an efficient system to allow prototype to function flawlessly.
- **Embedded software** into controllers to react instantaneously to human interaction.
- Developed a unique identification system that automates the delivery of artificial respiration in CPR, in which collaboration and discussions of technical solutions were held with the team and technical manager.
- Implemented technology to **decrease** ventilator **setup time** by 40%.
- Became a part of a team of 6 students strong aimed at building a fully portable and automatic ventilator that would decrease the difficulty for first responders to perform CPR.
- This resulted in providing **98% accurate** tidal volume tests that met American Heart Association (AHA) recommendations.

Supercharger Testing | MATLAB | Java

- Conducted testing procedures to learn about the Paxton Automotive N2500 Supercharger using **MATLAB**.
- Calculated the corrected mass flow rate and isentropic efficiency for each test with MATLAB to better depict compressor
- performance as a function of pressure ratio.
- Created and utilized a compressor map to better understand the isentropic efficiency.
- Identified where the supercharger will operate at the **highest efficiency**.

Recipe Search API github.com/riyad2ali/RecipeAPI

- Created a website which can search for the recipes of thousands of dishes with the **Edeman Search API**.
- Used: **ReactJS, Hooks (State/Effect), Asynchronous API (async/await), JSX, CSS modules**.

Music Player github.com/riyad2ali/Music-Player

- Created a responsive music player with **ReactJS**.
- Tapped into **TheAudioDB API** to receive .mp4 files, music thumbnails, names, and artists.

EDUCATION

University of Texas at Dallas 08/2017-06/2022

Bachelor of Science in Mechanical Engineering / Minor in Software Engineering GPA: 3.1