Jawad Alhamadah *Full-Stack Developer*

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in https://www.linkedin.com/in/jawad-alhamadah/   ⌗ https://github.com/Jawad-Alhamadah

TECHNICAL SKILLS

Front End:
React, Tailwind, CSS, HTML5

Back End:
Node.js, Express, Spring Boot, SQL, MongoDB, JWT

Languages:
JavaScript, Python, Java

Tools & Platforms:
Google Cloud (GCP), Docker, Git, Postman

EDUCATION

Tuwaiq Academy, *Reverse Engineering Bootcamp*   January 2024 – June 2024

Kansas State University, *B.S. in Computer Science*   United States

WORK EXPERIENCE

Tuwaiq Full-Stack Web Development Bootcamp   August 2024 – November 2024

MergeNet - React, Tailwind, Express.js & MongoDB
[Link] 🔗

- Collaborated in a team of 3 to build a platform designed to simplify the process of merging two companies.
- Developed admin and manager dashboards for assigning departments, handling job surplus and staff transfers.
- Integrated ChatGPT API to build a recommendation engine matching surplus employees to job vacancies.
- Implemented secure user authentication and authorization using JWT.

National Day Game - Javascript
[Link] 🔗

- Built a pixel-matching game for Saudi National Day using vanilla JavaScript and DOM manipulation.
- Added a dynamic leaderboard to rank top players and increase user engagement through friendly competition.
- Created a signup and login page to improve user engagement.

King Abdullah International Medical Research Center - NodeJs   September 2022 – January 2023

- Worked with bioinformatics teams to understand domain data and ensure accurate browser representation.
- Built a Node.js pipeline to process 8GB+ genome files from legacy systems for gnomAD browser use.
- Converted hospital genomic formats into gnomAD-compatible JSON structures for frontend consumption.

PROJECTS

Arduino Screen Animation Editor - React, Tailwind & Arduino
[Link] 🔗

- Developed a modular React application for designing OLED and dot matrix (MAX7219) animations, featuring dynamic canvas rendering and stateful frame management.
- Leveraged useState and useEffect to control frame transitions, animation previews, and pin configurations.
- Enabled real-time drawing, shifting, and rotating of animation frames with instant canvas preview updates.
- Built C++ code exporter with configurable SPI/I2C pin output for Arduino animation playback.

88% Accurate Dog Breed Classifier - Python Fast Api & React
[Github] 🔗

- Built a React interface with image crop and resize tools to prep uploads for classification.
- Deployed a FastAPI backend with GCP hosting to support frontend integration.
- Implemented a web scraper to search Wikipedia and fetch a link to the dog's breed

File Splitter - Python CLI Script
[Github] 🔗

- Built a command-line Python script for file chunking and reassembly, supporting arbitrary file types and sizes.
- Enabled GitHub version control for large files without Git LFS by managing storage via chunking.
- Reduced storage overhead by bypassing GitHub's large file restrictions through local chunk tracking.