



SWE363 PORTFOLIO

YAZEED FARIS

SWE363 SEC1



OVERVIEW AND OBJECTIVES



THE GOAL OF THIS SERIES OF ASSIGNMENTS WAS TO APPLY SKILLS LEARNED BY THE COURSE TO DEVELOP A PORTFOLIO WEBSITE SHOWCASING THE FOLLOWING:

LIVE GITHUB ACTIVITY

Showcasing real-time coding contributions and project updates

OVERVIEW OF MYSELF

The main objective of a portfolio is to give the reader a first impression of who I am, and what I do - and I tried to create a portfolio that reflects who I am as a person and student

PROJECTS

The portfolio is a great platform to showcase past projects, and that's exactly what I did here

PORTFOLIO

Hi, I'm **Yazeed**. I'm a CS student @ KFUPM.

I made a major renovation to my portfolio site, primarily inspired by the AI Legened Andrew Ng's portfolio. It now features a sleek design, curated projects, and live API-powered updates.

View selected work

Download CV

Time here: 532s · Welcome, guest.

POC

GitHub

LinkedIn

HERO SECTION

CONTACT

Let's collaborate.

Name

Email

Message

☐

I agree to be contacted back.

Send

Smooth Calls to Action (CTAs) for Projects and Contact, plus a theme toggle with preference persistence



PROJECTS

Some of my Work

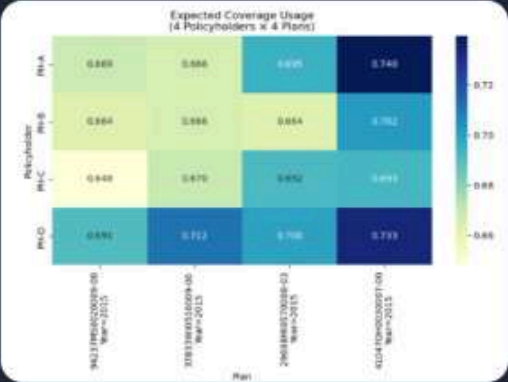
Filter:

All

Sort:

Most Recent

Hide projects

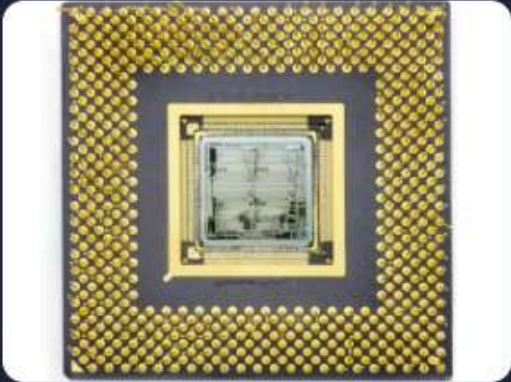


	Plan A	Plan B	Plan C	Plan D
Policyholder A	0.668	0.686	0.695	0.748
Policyholder B	0.664	0.686	0.684	0.762
Policyholder C	0.648	0.670	0.690	0.693
Policyholder D	0.690	0.713	0.708	0.733

Actuarial ML Insurance Recommender

Developed a hybrid actuarial machine learning model that accurately predicts insurance coverage usage based on a policyholder's profile using NumPy and TensorFlow

AI 6/2/2025 Python | Pandas | TensorFlow




16-bit RISC CPU

Solo three-day speedrun of building a 16-bit pipelined CPU implementing MIPS RISC architecture as well as numerous niche instructions.

HARDWARE 3/15/2025

Verilog | Timing STA | Simulation



FPGA Smart Parking System

Fully automated digital handicap-friendly smart parking system implemented in an Artix 7 FPGA, utilizing 7-segment display for displaying available parking places and green-red LED signaling to show if there're available spaces or not. No fancy libraries, pure Verilog. Shout-out to Salman al-Adwan for being my project partner.

HARDWARE 4/22/2024 FPGA | VHDL | UART

PROJECTS DISPLAY

User friendly UI to explore different projects I played a role in with added functionalities such as sort by recency or alphabetically and categorical filtration



LIVE FEED

Latest GitHub activity.

check out my latest work in GitHub @ MickeyMoussa

This section is now auto-fetching my latest public repositories at live time

assignment-4

No description provided.

* 0 Updated 12/11/2025 JavaScript

assignment-3

No description provided.

* 0 Updated 12/11/2025 JavaScript

8-1-api-authentication-hashing-MickeyMoussa

web-engineering-kfupm-classroom-8-1-api-authentication-hashing-8-1-Thirdparty-API-Authentication-Pas created by GitHub Classroom

* 0 Updated 11/24/2025 JavaScript

frontend

No description provided.

* 0 Updated 11/22/2025 JavaScript

7-1-mongodb-MickeyMoussa

web-engineering-kfupm-classroom-7-1-mongodb-7-1-mongodb-Dromarjh-main created by GitHub Classroom

* 0 Updated 11/19/2025 JavaScript

Showing latest updates for MickeyMoussa.

GITHUB DISPLAY

Utilized GitHub RESTLESS API to fetch info about last 5 repos I was involved in at GitHub in live time



CONTACT

Let's collaborate.

Name

YAZEED ALZHRANI

Email

s202349310@kfupm.edu.sa

Message

wdiojjdoljaelodjioeadjioeajiojd

☒ I agree to be contacted back.

Send

Message validated - ready to send!

CONTACT FORM

To utilize this portfolio as a medium to connect with collaborators, I implemented a form for contact that utilizes RegEx for input validation and has popups for the user if he inputted something that isn't formatted correctly

ARCHITECTURAL DESIGN

STACK:

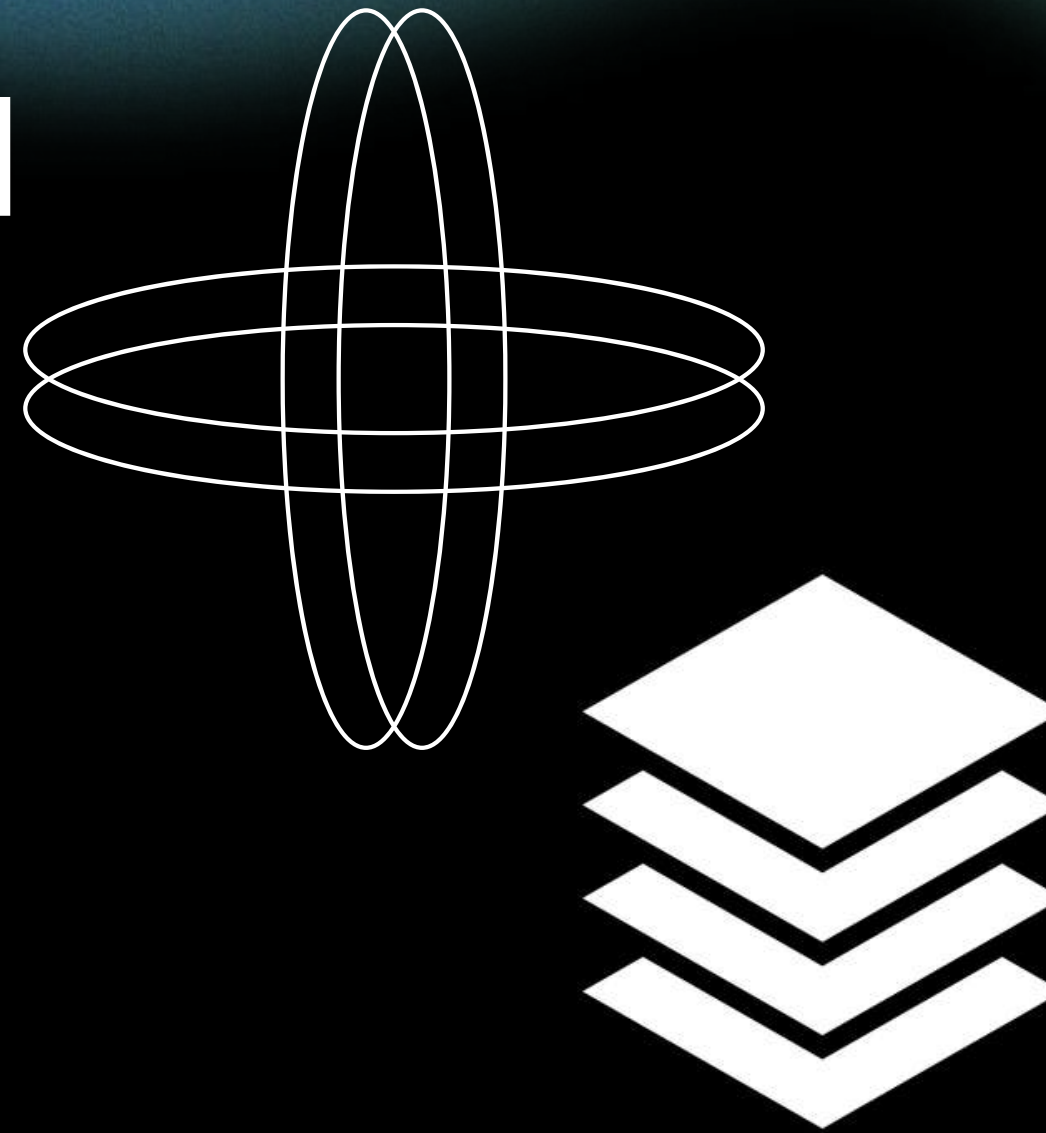
minimalist stack that utilizes vanilla js, html, and css without third-party frameworks

DATA MANAGEMENT:

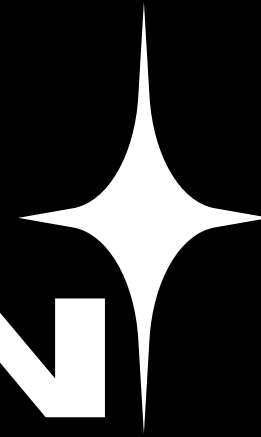
stored some data in the local storage for consistency - such as name (taken from form), time spend on the website, and theme

UX:

smooth scroll with a responsive layout to make the portfolio interactive



AI INTEGRATION



STYLING

was given total responsibility for styling and applying Google Fonts to the project to ensure sleek and aesthetic interface

ERROR HANDLING

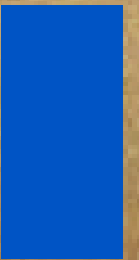
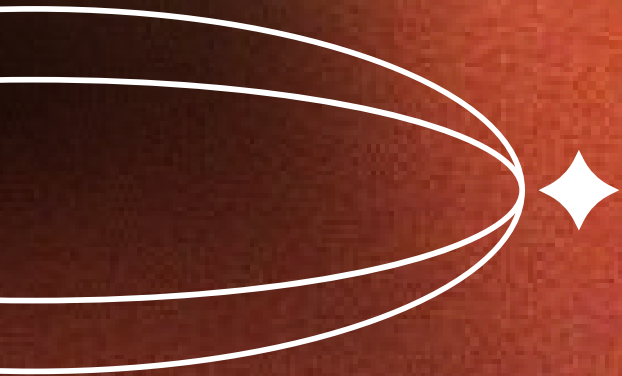
assisted in brainstorming different error handling approaches for potential error patterns

REGEX

helped debug RegEx issues to ensure robust input validation in form



LLM USED: CHATGPT



```
function initInteractions() {  
  applyTheme();  
  setGreeting(state.visitorName);  
  renderProjects();  
  fetchRepos();  
  setInterval(updateVisitTimer, 1000);  
  
  document.getElementById("theme-toggle")?.addEventListener("click", toggleTheme);  
  document.getElementById("project-filter")?.addEventListener("change", (e) => {  
    renderProjects(e.target.value, document.getElementById("project-sort").value);  
  });  
  document.getElementById("project-sort")?.addEventListener("change", (e) => {  
    renderProjects(document.getElementById("project-filter").value, e.target.value);  
  });  
  document.getElementById("toggle-projects")?.addEventListener("click", toggleProjectsVisibility);  
  document.getElementById("contact-form")?.addEventListener("submit", validateContactForm);  
  document.getElementById("name")?.addEventListener("input", (e) => setGreeting(e.target.value));  
  document.getElementById("primary-cta")?.addEventListener("click", () =>  
    document.getElementById("projects")?.scrollIntoView({ behavior: "smooth" })  
  );  
  document.getElementById("cta-button")?.addEventListener("click", () =>  
    document.getElementById("contact")?.scrollIntoView({ behavior: "smooth" })  
  );  
}  
  
document.addEventListener("DOMContentLoaded", initInteractions);
```

INTERACTIVITY WITHOUT REACT

I'm personally used to using react since it's convenient, but implementing this project without it presented a major challenge. I had to advance my event listener clicks and created a mini framework made up of state objects for different events and a "manual use effect" hook almost. Whenever an event was triggered, the corresponding function is called and the web page responds interactively

DEEP DIVE: CHALLENGES AND SOLUTIONS



LESSONS LEARNED

DOM MANIPULATION

This experience made me more technically advanced in manipulating the DOM without the reliance on React

INTERACTIVE UI

By creating an interactive UI that is context-aware with respect to errors in the form, I learnt to both create a UI that is both aesthetically pleasing and practical





OUTCOMES



1

Developed a portfolio website that utilizes API calls and interactive features with robust validation to ensure a polished final product

2

Explored the GitHub API to fetch data in real-time

3

Deployed the project on to the internet using Vercel

FUTURE WORK: FOCUSING MORE ON THE CONTENT OF THE WEBPAGE INSTEAD OF THE CODE TO ALIGN PORTFOLIO WITH CAREER GOALS AND WHAT EMPLOYERS LOOK FOR



THANK YOU!

YAZEED ALZAHRANI

✉ **S202349310@KFUPM.EDU.SA**

🌐 **CHECK OUT THE DEPLOYED**

WEBSITE:

<https://assignment-4-ob3u9fvj7-mickeymoussas-projects.vercel.app/>

