Allen Darson C

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PROFESSIONAL SUMMARY

Recent Mechanical Engineering graduate with strong programming skills and hands-on experience in full-stack web development, SQL-based data systems, and cloud fundamentals. Eager to leverage a solid foundation in Python, Django, and MySQL to contribute to software development or data-driven projects. Committed to continuous learning and delivering efficient, user-focused solutions in a collaborative team environment.

TECHNICAL SKILLS

Programming Languages: Python

Web Development: HTML, CSS, JavaScript, Django, Flask

Database Management: SQL (MySQL), Joins, Aggregations, Generated Columns

Cloud Platforms: Basic exposure to AWS (Currently Learning)

Tools: VS Code, GitHub, XAMPP, IDLE (Python)

PERSONAL PROJECTS

Gym Service Integration   July 2024 - August 2024
Full-Stack Web Project   *Tech Stack: HTML, CSS, JavaScript, XAMPP, and Python*

- Successfully developed a full-stack web application simulating real-world gym service workflows.
- Seamlessly integrated a responsive BMI calculator and contact form to improve user interaction.
- Effectively implemented client-side validation to enhance user experience and ensure accurate data entry.
- Built a modular backend using Python to manage form submissions, service requests, and data storage efficiently.

Salary Management System (IBM)   March 2025
Database Project   *Tech Stack: SQL (MySQL)*

- Designed and implemented a normalized payroll database with GENERATED columns and referential integrity.
- Wrote optimized SQL queries for salary analysis, departmental averages, and high earners.
- Performed CRUD operations and conditional updates simulating HR and finance workflows.
- Analyzed salary data to generate reports for insights like deductions and departmental expenses.

UNIVERSITY PROJECTS

Thermal and Mechanical Behaviour of YSZ and Alumina Coatings on Inconel-725 July 2022 - April 2023
Mechanical Analysis Project

- Studied the thermal and mechanical performance of YSZ and alumina coatings on Inconel-725 used in turbine environments.
- Evaluated coating durability under high temperatures and corrosive conditions.
- Performed mechanical testing and diffraction-based analysis to identify the most effective protective coating.

EDUCATION

Sri Ramakrishna Engineering College   Coimbatore,Tamil Nadu
Completed B.E.in Mechanical Engineering with CGPA of 7.69   *2019–2023*

CERTIFICATIONS

Completed Python course at LIVEWIRE-Coimbatore, Tamil Nadu

Completed Full-Stack Python course at Indra Institute of Education-Coimbatore, Tamil Nadu

Completed SQL and Relational Databases 101 from Cognitive Class