Ahmed Abdul Saad

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EDUCATION

American University of Sharjah   **Sharjah, AE**
Bachelor of Science in Computer Engineering   *May 2023*
- Awards: Outstanding Student Scholarship Award, Hamid Jafar Scholarship Award

WORK EXPERIENCE

Al Ghurair Investment   **Dubai, AE**
Software Engineering Intern   *June 2022 - August 2022*
- Developed an online shopping web app using ReactJS and APIs built on Strapi.
- Experienced the Agile / Scrum software development lifecycle and contributed to the development and testing of existing and unreleased websites and applications.
- Demonstrated strong technical skills in database administration using MariaDB, and proficiency in multiple content management systems such as Strapi and HCL Dx.

PROJECTS

Machine Learning Pipeline for Fault Detection of Jet Engine Rotors   **Sharjah, AE**
Senior Design Project   *Sept 2022 - Present*
- Designed a machine learning pipeline for fault detection of jet engine rotors using MLOps practices.
- Integrated the ML pipeline with the software development lifecycle, using AWS EC2, DynamoDB and SNS enabling rapid and scalable deployment of fault detection systems in production environments.
- Built a mobile application with Flutter for users to view and update the status of rotor faults and repairs.

Personal Portfolio Website & Blog   **Dubai, AE**
Personal Project   *Nov 2022 - Jan 2023*
- Developed a personal portfolio website using Next.js and designed with Tailwind CSS.
- Implemented a blog on the website with Hygraph's GraphQL CMS as the backend.
- Utilized server-side rendering (SSR) and incremental static regeneration (ISR) in Next.js to build a fast and scalable website.

Bug Tracker Android App   **Sharjah, AE**
Course Project | Mobile Application Development   *Fall 2022*
- Developed a bug tracker Android app using Java and the Firebase platform, allowing users to report and track bugs in software or other systems.
- Implemented user authentication and a cloud-based database using Firebase services, enabling users to create accounts and access/modify their bug reports.

Automated Vehicle Detection and Tracking using OpenCV and YOLO   **Dubai, AE**
Personal Project   *June 2022 - July 2022*
- Developed a computer vision system using OpenCV and YOLO in Python, to count the number of vehicles passing on a road.
- Utilized image processing and object detection capabilities to analyze video footage and identify vehicles in the frame, incrementing a count for each vehicle that passes by.
- Implemented real-time analysis of recorded footage, with the ability to display results on the screen.

Virtual Reality Bowling Game   **Sharjah, AE**
Course Project | Virtual and Augmented Reality   *Fall 2022*
- Developed a VR bowling game using Unity3D and C#, allowing players to experience bowling in a fully immersive environment.
- Implemented realistic physics-based gameplay that accurately simulates the ball's movement and collision with the pins, using a variety of ball sizes and weights.

SKILLS

Languages: Javascript, HTML, CSS, Python, C++, Java
Frontend: React, Next.js, Tailwind CSS, Three.js
Backend: Express, AWS, Postman, MariaDB, DynamoDB
ML/AI: Python, TensorFlow, Brain.js

CERTIFICATIONS: *AWS Cloud Practitioner Essentials - July 2022*