Ahmed Abdul Saad

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EDUCATION

American University of Sharjah   **Sharjah, AE**
Bachelor's of Science in Computer Engineering   *Sept 2019 - May 2023*
- Awards: Outstanding Student Scholarship Award, Hamid Jafar Scholarship Award, Undergraduate Research Grant Award
- CGPA: 3.15/4.0

Certifications: *AWS Cloud Practitioner Essentials - July 2022*

WORK EXPERIENCE

Freelance   **Dubai, AE**
Frontend Developer   *Sept 2022 - Present*
- Built web apps and landing pages for clients businesses based on their requirements.
- Used React, Node.js, Express, and Wordpress to build webapps for clients.

Al Ghurair Investment   **Dubai, AE**
Software Engineering Intern   *Jun 2022 - Aug 2022*
- Tested websites and applications leading to a decrease in bugs by 70% using software testing methods.
- Demonstrated strong technical skills in database administration using MariaDB, and proficiency in multiple content management systems such as Strapi and HCL Dx.
- Practiced rapid software development using the Agile / Scrum lifecycle.

PROJECTS

AI Powered Text to SQL Translator   **Sharjah, AE**
Personal Project   *May 2023*
- Developed an AI powered webapp that converts natural language from the user into SQL queries.
- Leverages the OpenAI GPT-3.5 API to convert natural language into SQL queries.
- Built with React, Express & TypeScript and styled with TailwindCSS.

Personal Website & Blog   **Dubai, AE**
Personal Project   *Nov 2022 - Jan 2023*
- Developed a personal portfolio website using React, Next.js and 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.

Deep Learning Pipeline for Crack Detection using Incremental Learning & MLOps   **Sharjah, AE**
Senior Design Project   *Sept 2022 - May 2023*
- Designed a machine learning pipeline for surface crack detection using MLOps practices.
- Integrated the ML pipeline with AWS EC2, DynamoDB and S3 using a custom-built GoLang server.
- Added incremental learning using knowledge distillation for the model to learn from incorrect predictions.
- Built a mobile application with Flutter for users to upload images and get inference results.
- Successfully secured AED 5000 as the Undergraduate Research Grant Award from AUS.

Prediction of Wildfires using Deep Learning and Vision Transformers   **Sharjah, AE**
Course Project | Neural Networks & Deep Learning   *Apr 2023*
- Developed a deep learning model to predict the presence of wildfire flames in drone images of forests.
- Used the FLAME2 dataset of 60,000 drone images to train the custom deep learning model.
- Compared various models such as CNNs and Vision Transformers and obtained accuracy of 99.92%.

Bug Tracker Android App   **Sharjah, AE**
Course Project | Mobile Application Development   *Dec 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.

SKILLS

Languages: Javascript, HTML, CSS, Python, C++, Java, GoLang
Development: React, Next.js, Tailwind CSS, Three.js, Express, Vercel, MariaDB, Dynamo, Keras, Tensorflow