

# Ahmed Abdul Saad

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## EDUCATION

### American University of Sharjah

Bachelor's of Science in Computer Engineering

Sharjah, AE

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

Frontend Developer

Dubai, AE

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

Software Engineering Intern

Dubai, AE

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

Personal Project

Sharjah, AE

May 2023

- Developed a 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

Personal Project

Dubai, AE

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

Senior Design Project

Sharjah, AE

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

Course Project | Neural Networks & Deep Learning

Sharjah, AE

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

Course Project | Mobile Application Development

Sharjah, AE

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