Anas Arif
Software Developer

A passionate graduate of Bachelor's in Electrical Engineering degree with majors in Computer Systems, eager to become a valuable member of a forward-thinking organization. My primary goal is to continually develop and enhance my skills while actively contributing to the organization's objectives. As a technology enthusiast with a passion for coding, I am particularly drawn to opportunities related to Python and Machine Learning.

Contact

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https://github.com/KaedKazuha/

Education

2018-2023
BS EE(Computer Engineering)
FAST-NUCES Karachi

2018
Pre-Engineering
Karachi Board

Expertise

- Python
- Computer Vision
- Java
- SQL
- C,C++
- HTML5/CSS

Language

English

Urdu

Experience

○ **Feb 2024- Current**
7gFuse Pvt Ltd. | Karachi
Software Developer Trainee

- Learning C++ in a Linux environment using g++ compiler.
- Writing practical and efficient C++ code divided with header files.
- Using version control methods to work as a team and improve our code.
- Debugging tools for checking of errors and memory leaks using tools such as Valgrind.
- Implementing Unit testing and assertion methods with the help of GTest for robust and reliable code.
- Using CMake and Make to create Make files allowing us to compile and test code easily.
- Implementation of error handling methods.
- Developing programs and projects based on OOP and publishing shared libraries of our code.
- Making projects such as Calendar App, File text Editor, IP Address validation and subnet calculator following DRY principles.
- Using Drogon Framework to implement MVC architecture for the backend of the web application.
- Implementation of KnockoutJS, a Javascript based MVVM architecture for front-end of the web application.
- Using Inja, a C++ template engine for displaying dynamic data.
- Cache server based on Redis Plus Plus library for C++.
- Using Jquery for fetching Json data and DOM implementation.
- Using Bootstrap for responsive and stable web application.
  -C++ -OOP -VSCode -Bash -CMake -Valgrind -GTest -Linux -Vim -Drogon -JavaScript -CSS/HTML5/Bootstrap -KnockoutJS

○ **Jul 2022- Aug 2022**
TCS Private Limited | Karachi
Android Developer Intern

- Learnt essential amounts of Java and it's syntax using tutorials and documentation.
- Implemented the related concepts along with polished OOP concepts in Android Studio to create simple applications with implementations of recycler view, retrofitting and utilizing REST-API.
- Insights on business practices alongside technologies and skills involved in running an application.
- **-Android Studio -Java**

PROJECTS

PPE Detection using Machine Learning and Computer Vision
2023
As part of a three-member team for our final year project, I developed a real-time computer vision web application using object detection and machine learning algorithms to detect personal protective equipment (PPE) such as helmets and safety vests.
-Python, OpenCV, pandas, numpy, PyTorch, Flask, YoloV8

Portfolio Website

- Built a responsive personal portfolio using React to showcase my skills and projects.
- Implemented dynamic routing and interactive UI components to enhance user experience.
- Used CSS Flexbox and Grid for layout design, ensuring the site works well on all devices.
- Added features like a "Download CV" button and smooth animations to improve usability.
- Optimized the site for performance by using techniques like lazy loading and image optimization.
- Structured the project with reusable components to make the code easy to maintain and expand.

Plant Disease Detection

2022

A Google Colab project based that used CNN to detect disease in a variety of plants using image processing with the help of machine learning.
 -Python, OpenCV, pandas, numpy, PyTorch

Hospital Management System

2021

A three member project to implement a fictional and robust database management system that includes the record of data present in hospitals such as patient history and the employees in the hospital.
-Oracle

CERTIFICATIONS

Meta Back-End Developer Professional Certificate

2023-In Progress

- Learn to use programming systems including Python Syntax, Linux commands, Git, SQL, Version Control, Cloud Hosting, APIs, JSON, XML and more