Daud Baig Irfan

SOFTWARE ENGINEER INTERN
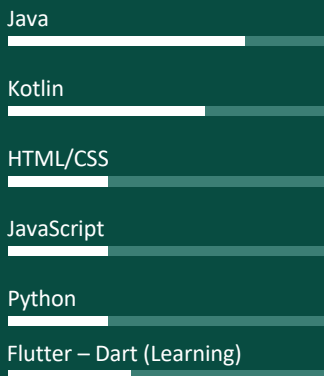
Details

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Links

Git:
https://github.com/daudbaig91

Languages

Java

Kotlin

HTML/CSS

JavaScript

Python

Flutter – Dart (Learning)

Familiar Languages

Swift – (Learning IOS Dev)

C #

SQL

PHP

Visual basic

Technologies:

- Android Studio
- XCode
- Flutter
- Visual Studio
- GIT
- VS Code
- NetBeans
- Azure
- MySQL
- AWS
- Firebase

Hobbies

Gym, Running Boxing, Muay Thai, MMA Study of comparative religion

All mentioned projects source code available in my GitHub. Currently learning Flutter and IOS development

Education

Computer Science BSc, University of Westminster, London

SEPTEMBER 2020 — 2022 DROP OUT

Coursework Projects:

- **The Algorithm Test App – Kotlin**
  KOTLIN – 94% - 2ND YEAR
  Kotlin quiz app that tests users by creating random operations with specific parameters in given time

- **Movie Database - Kotlin**
  KOTLIN – 88% - 2ND YEAR
  App used to search and save movies info by using *Open Movie Database API* and Room.

- **Software Development Group Project**
  NETBEANS JAVA FORMS – 76% - 2ND YEAR
  80% of project done by my/self. Used MySQL Database as backend. App for students to practice languages in groups with admin having special access to add and view all relevant data. Best project (terms of code) for efficiency and overall clean design/structure.

- **Geography Quiz Website**
  JAVASCRIPT – 96% - 1ST YEAR
  Best project for design and code efficiency

A level, Leventhorpe School, Sawbridgeworth

SEPTEMBER 2018 — JULY 2020

Computer Science, Maths, Spanish

Freelance

Android Quran App - Both Java Private Android App & Flutter Cross-Platform

FEBRUARY 2022 – Java And Dart(Flutter)

Pdf viewer for a specific book out of production in the 1980's, Used custom sliding/swiping fragments with bottom tab layout for navigation, used basic translating and rotating animation with floating buttons for an aesthetic look. Initially used custom recycler views to display pdf pages, later changed and used the android pdf viewer library as it incorporated many pdf functionalities. The app includes functionality such as bookmarks and chapters page where users can add data through custom dialog boxes, last read page is saved in shared preferences an access through a "resume" floating button. User can navigate to a page using search bar. In Flutter used SqlfLite Database to save Listviews modified Data. Visit Git for app previews.

Android Projects

YouTube Downloader

SEPTEMBER 2022 KOTLIN – (BACK-END PYTHON)

Used azure functions to create a python function that returns a YouTube video in the chosen formats (mp3, mp4 high or mp4 low resolution) using Pytube. This simple function used with the powerful Pytube API makes downloading YouTube videos up to 60% faster than the top searched sites. Made an app for android, this app also has the functionality to download all videos from playlists asynchronously. Used YouTube API to pull videos id's and the DownlaodManager service to request and download the videos.

Weather App - Java

AUGUST 2022 - JAVA

WeatherApi used for weather data and loading its icons and images using Glide library. Dynamic fragments used to allow user to add/remove new locations and display weather, as default "current" location taken from google places API and google Autocomplete API used for searching and displaying predictions in recycler view, Http requests made through OkHttp. Bottom pull tab contains hourly weather (displayed by using MPAndroidChart Library) and 14-day forecast (in recycler view. App contains a location search panel and preferences panel allowing users to customize background and text colours used in app. Blur Kit library used to add a blur to background images and add a "live" gradient to the search panel as the apps design is inspired by UI/UX designer. TinyDb library used to saved users weather locations in shared preferences.

Bubble Sort Visualiser - Kotlin

JULY 2022 - JAVA

Bubble sort visualizer with the purpose of a clean design and smooth functionality for an appealing and interactive user experience. The app includes a player with a play, next, reverse, skip and speed bar which the user can interact live while sorting a graph automatically. The app allows the user to create random sorted, nearly sorted (increasing & decreasing) and custom lists of integer inputs. It has a code and explanation tab which while sorting it simultaneously displays information accordingly. This was a challenging project due to the dynamic implementation of it which allowed me to learn, deeply understand and practice the use of custom complex animations, dynamic views, threads, OOP and more.

Tv YouTube App

SEPTEMBER 2022 - KOTLIN

A tv app made for the elderly that cannot navigate YouTube and want to watch a collection of the same videos. App allows users to add new folders, videos and playlists which are saved in Firebase Realtime Database and Users log/sign in managed through firebase auth with auto Log in if user already logged. Implemented a YouTube using *YouTube player library* to play videos with basic controller functionality. Resume function implemented using shared preferences. Used YouTube Data API to retrieve all necessary data.