

# Muaz Hassan

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## EDUCATION

### **SOUTH EAST TECHNOLOGICAL UNIVERSITY**

**MSC-COMPUTING (ENTERPRISE SOFTWARE SYSTEMS)**  
Sep 2022 - June 2023 | Waterford, IRL

### **INSTITUTE OF SPACE TECHNOLOGY**

**BS-ELECTRICAL ENGINEERING**  
Sep 2018 - July 2022 | Islamabad, PK

## LINKS

LinkedIn:// **Muaz Hassan**  
Github:// **Muaz Hassan**

## COURSEWORK

### **POSTGRADUATE**

S1|Cloud Architecture  
S1|Business Intelligence  
S1|Agile Software development  
S2|User Experience and Design  
S2|Web Development :: Full-Stack()  
S2|Mobile App Development :: Android()

### **UNDERGRADUATE**

VLSI Design  
Embedded Systems  
Programming Language  
Computer Networks  
Digital Logic Design  
Linear Circuit Analysis  
Engineering Management

## SKILLS

### **PROGRAMMING**

Over 50000 lines:

- Swift

Over 5000 lines:

- Python • Kotlin • JavaScript

Familiar:

- iOS • Android • Web

- C++ • C# • MATLAB

- HTML/CSS

- AWS • Firebase

- REST API

- Heroku • Railway

- UT • TDD • CI/CD

- MVVM/MVC/MVP • GitHub/Git

## HOBBIES

- Trekking • Photography
- Gaming • Football

## EXPERIENCE

### **INDIE DEVELOPMENT | IOS ENGINEER**

Oct 2021 - Sep 2022 | Islamabad, PK

- Creating iOS Applications from UX/Design to App Store publication

### **VYRO | RESEARCH AND DEVELOPMENT ENGINEER (IOS)**

Sep 2020 - Sep 2021 | Islamabad, PK

- Developing and testing new features from scratch for the iOS application
- Collaborating with the development team for the integration of modules
- Working with images and using existing libraries for the development
- Fixing bugs, bottlenecks, and ensuring application stability

## PROJECTS

### **COLLAGE HUB | APPSTORE LIVE**

Designed and developed the entire application from scratch.

Available for iPhone, iPad, and Mac (Intel & Silicon).

**Collage Hub** | 40+ reviews globally

### **SIMULATOR APPLICATIONS**

- **FYP | BS**: Early detection of breast tumor using machine learning techniques (CNN architectures, CLBP)
- **Meister Lite - Code & Preview**
  - Mobile-application allows users to add daily tasks, projects and checklists, and build a personal profile
  - Intuitive and classy Application UI(Programmatic + Storyboard)
  - Authenticating via Firebase
  - Syncing using Cloud Firestore
  - Maintaining data locally using Realm
  - Testing using XCTest
  - Based on Swift's modern and legacy API
  - Language: Swift | frameworks: UIKit & Snapkit
  - Architecture: MVVM
- **Fitness Pro - Code & Preview**
  - Web-application allows users to keep track of their routine i.e. workouts, activities, moods, and hydration
  - REST API from scratch
  - Hosted on Heroku and Railway
  - Database: PostgreSQL, Hosted on ElephantSQL
  - 100% test coverage using JUnit (Integration and Unit Test)
  - CI/CD: GitHub CLI
  - Documentation:: API: OpenAPI, Project: Dokka
  - Languages: Kotlin, JS, HTML, CSS | frameworks: Bootstrap, Axios
  - Principle: SOLID

### **More**

- Auto-scalable ToDo web-application instance backed by AWS RDS and ELB
- Serverless architecture based on AWS Lambda, SQS, Dynamo and API Gateway
- Web-application allowing users to send messages (Backend & Frontend) - **Code**
- GitHub pro app (Access Github but via app, Part of Sean Allen course)
- AR dice app (Roll dice but in augmented reality, Part of Angela Yu course)
- Photo editor app (Using GPUImage to apply shaders/filters)
- Lazer eyes app (Detect pupil via ML model and get bitcoin maxi eyes)
- Drone monitoring app (Model detecting, tracking and centering drone in real-time)
- Hacker news app (Integration of API to fetch news)
- Crypto price app (Integration of API to fetch the coin price in multiple currencies)