

# 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**

Agile Software development  
Cloud Architecture  
Business Intelligence  
Mobile App Development (::Andriod)  
Web Development (::full-stack)  
User Experience and Design

### **UNDERGRADUATE**

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

## SKILLS

### **PROGRAMMING**

Over 50000 lines:

• Swift

Over 5000 lines:

• Python • Kotlin • JavaScript

Familiar:

• iOS • Android • Web

• MATLAB • HTML/CSS

• C++

• 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 features from scratch
- Working with images and using existing libraries for the development
- Collaborating with the development team for the integration of modules
- Fixing bugs and ensuring app stability

## PROJECTS

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

Designed and developed the entire app 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(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)
- Auth system using Firebase
- Sync to the cloud 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)