# Shubham Arya

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<u>Website</u> | <u>App Store</u> | <u>GitHub</u> | <u>LinkedIn</u>

## EDUCATION

### UNIVERSITY OF TEXAS AT ARLINGTON

BS in Computer Science
2018-2022 | Arlington, TX
Overall GPA: 3.788 / 4.0
Major GPA: 3.82 / 4.0

### AWARDS AND RECOGNITION

• Maverick academic scholarship for academic excellence *(2018-2022)*
• College of Engineering Dean's list *(2019-2021)*

### COURSEWORK

Theoretical Computer Science
Algorithms and Data Structures
Operating Systems
Database Systems & File Management
Computer Networks
Computer Architecture & Organization
*Technical Electives*
Artificial Intelligence
Machine Learning
Software Testing & Maintenance

### COURSE PROJECTS

Multi-threading office scheduler
Vending Machine Software
Employee & Rental Database System
Web server Program
Shell command line interface
Linear Regression
Neural Networks
Find Routes using A* Search

## SKILLS

### PROGRAMMING

Over 5000 lines:
Swift • Python • C++
Over 1000 lines:
C • Java • HTML • CSS • LaTeX

### DATABASE

Firebase • MySQL • SQLite

### SOFTWARE AND TOOLS

GitHub • Xcode • JUnit • Procreate
Adobe Creative Cloud • VS Code

### IOS EXPERTISE

Cocoa Touch • CoreData • SwiftUI
MapKit • CloudKit • UserNotifications
MVC • MVVM • CoreLocations

## PROJECTS ON APP STORE

### MONEY-WISE | Budget manager with graphs and reports

May 2021
- Lets user track money through in-depth analysis with graphs, reports, filters, and history involving complex algorithms optimized for efficiency.
- Integration with APIs of Apple Maps, real-time currency converter, In-App Purchases, and third party frameworks like Charts for maximum utility.
- Provision to set recurring and automatic transactions, sending notifications for transactions, and synchronizing data across device with iCloud.

### SORTIFY: POCKET PLANNER | All in one daily essential

September 2020
- Create lists, write notes, set reminders, and track college progress all in one app.
- Generate widgets, save data locally on device, and share everything with ease.
- Over a hundred thousand impressions and over 15,000 downloads till date.

### HAND CRICKET: CRICKET AT HOME | Digital version of cricket

May 2020
- Allow users to compete against opponents for a spot on the leader board.
- Formulate algorithm to calculate coins based on the status and history of game.
- Engineer using Firebase authentication & storage for quick remote data access.

## WORK EXPERIENCE

### UTA LIBRARIES | Student Assistant

January 2019 – Present | Arlington, TX
- Provide consultations for photo, video, and sound editing using the Adobe Creative Cloud (Photoshop, Illustrator, Animate, Premiere Pro, Lightroom).
- Support students with technology, resolve issues in hardware and software.
- Assist patrons with general issues, and aid in research topics for user success.

## OTHER PROJECTS

### LYRICS | Music Detection and Lyrics Generator

November 2021
- Uses microphones on iOS devices to listen to music and finds the metadata of music using ShazamKit.
- Generates the lyrics for a song detected using a lyrics API.
- Applies CoreData to manage and store data, SwiftUI to build the user interface, by using MVVM architecture.

### AUXILIO | A marketplace for goods and services

September 2021 (In progress)
- Empower students on UTA campus to post and pick jobs through the website.
- Functionality to be accomplished using MongoDB, Express, React, and Node stack.

### WEBSITE DEVELOPMENT | Personal portfolio

December 2020
- Responsive website developed using HTML, CSS, JS, and with the help of frameworks like Bootstrap.