

PROFILE SUMMARY

I am a recent Computer Science graduate with a strong background in software development, specializing in website development with React JS and Node JS, and application development using Android Studio and React Native. My experience includes working with databases like MongoDB, Firebase, MySQL, and SQLite, along with a deep understanding of Data Structures, Algorithms, and Machine Learning. Proficient in C, Java, Python, C#, and JavaScript, I am currently seeking entry-level opportunities in software development where I can apply and further develop my skills.

EDUCATION

COMSATS University Islamabad, Abbottabad Campus

Bachelor's Degree in Computer Science
2020 – 2024

CGPA: 3.77 / 4.0

SKILLS

- C#
- NodeJS
- C
- React JS
- Java
- MySQL
- Python
- Assembly
- HTML
- React Native
- CSS
- Firebase
- Java Script
- MongoDB

INTEREST

- Backend Development
- Machine Learning
- Problem Solving

TOOLS

- Unity
- Android Studio
- Visual Studio Code

CERTIFICATIONS

- Battle of Coders (IEEE)
Secured First Position
- RoboMakers Workshop (IET)
Secured First Position
- Coding Guru (GDSC)
Secured Second Position

TECHNICAL PROFICIENCIES

HackerRank Practice:

- Java: 55% completion
- SQL: 47% completion

PROJECTS

Final Year Project

Reinforcement Learning Agent for Mortal Kombat

- Developed a **reinforcement learning agent** called "Scorpion" for the Mortal Kombat game using the **DQN algorithm**, diving deep into **game AI**.
- The project utilized technologies like Keras, TensorFlow, Pillow, PyDirectInput, PyAutoGUI, and a graphical interface.
- I focused on learning and implementing reinforcement learning, writing the Python code, and training the agent, while my teammates handled model testing, data creation and graphical interface.

Projects

- Ecommerce Application (React Native)**
- Student Portal Application**
 - Developed two eCommerce applications and a student portal using **React Native**.
 - The first eCommerce app used **Firebase**, the second used **PHP** and **MySQL**, while the student portal utilized **asynchronous storage** for course registration and account management.
 - I worked on integrating Firebase, PHP, MySQL, and handling data storage in the student portal, while my teammate focused on styling, front-end screens, and some asynchronous storage tasks.
- Bio Tools Android Application**
- Shop Finder Android Application**
 - Developed two projects using **Android Studio** with **Java**. Bio-Tools, applying concepts from my **BioInformatics course**, and Shop-Finder, built for a **Database course using SQLite**.
 - Both projects were developed entirely by me, where I handled every aspect from start to finish.
- Al Noor Public School Book Sales Website**
 - This project was built using **ReactJS**, **NodeJS**, and **MongoDB**.
 - Developed a website for AlNoor Public School to manage book sales, including adding publishers, updating book information, selling and returning books to customers, and generating bills for new school sessions.
 - Project was developed by two people, I handled all the work, and my teammate later created the bill generation screen, changed some columns in the database.
- Huffman Coding Chat Desktop Application**
 - The project was built using **Java Swing**, **Huffman coding**, and **socket programming**.
 - Developed a chat application in Java Swing for a **Data Structures course**.
 - Here I implemented the Huffman code and worked on socket programming, while my teammate focused on Java Swing, creating screens and managing network communication.
- Unity Game Development**
 - I developed three Unity projects: a **2D car navigation** game for delivering packages, a **2D tile Vania** with obstacles and enemies, and a **3D game** called 'Cubethon' where a cube navigates obstacles with a scoring system.
 - These projects were developed by following university instructor guidelines and Brackeys' YouTube tutorials.
- Secure Account Based Notes Keeping**
 - I developed this project in **C** for a **Programming Fundamentals course**.
 - The system allows users to sign up, log in, and securely manage their personal data in the form of files. In this project, I used concepts such as arrays, loops, structures, functions, and file handling.
 - Project was developed entirely by me, where I handled every aspect from start to finish.
- 8 Bit Computer Using Logic Gates**
 - This project was developed using concepts of **digital logic gates**, **computer architecture**, and **microprocessors**.
 - It is an 8-bit processor simulator with an ALU, CU, registers, and memory units, designed to execute arithmetic, logic, and conditional and unconditional jump instructions.
 - Project was developed entirely by me