




Sadia Shafeeq

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 sadia-shafeeq

 I-a-coder

PROFESSIONAL EXPERIENCE

Coding Intern

AICP internship

Feb 2024 - Apr 2024

- Completed intensive 8-week certified internship focusing on advanced C++ programming
- Developed and implemented multiple software solutions using industry-standard practices
- Collaborated with team members on complex programming challenges

Freelancing

Freelance Developer & Content Writer

Mar 2024 - Present

- Implemented custom Data Structures solutions for diverse client requirements
- Authored technical blogs and documentation with focus on clarity and accuracy
- Managed multiple projects simultaneously while meeting strict deadlines

Cloud Auto

Research intern

Dec 2024 - Present

- Researching AWS services for cloud optimization
- Collaborating with team to deliver findings

EDUCATION

Information Technology University, Lahore

Bachelor of Science in Artificial Intelligence

Aug 2023 - Aug 2027 (Expected)

- Relevant Coursework:
Artificial Intelligence, Software Engineering, Web Development, Analysis of Algorithm, Data Structures, Mobile Application Development, Computer Network, Database Systems, Object Oriented Programming, Programming Fundamentals

Queen Mary College, Lahore

FSC Pre-Engineering

2021 - 2023

- Achievement: Secured A+ Grade

PROJECT

Augmented Reality for Indoor Navigation (AR)

Currently Working

- AR indoor navigation using immersal SDK
- Track user starting and goal point and give complete guidance by using live web camera and without using GPS

Face Expression detector

4th semester Final Project

- Built a lightweight CNN model for real-time facial expression recognition, trained on the FER-2013 dataset.
- Achieved multi-class classification across 7 emotions: Angry, Disgust, Fear, Happy, Sad, Surprise, and Neutral.
- Designed for practical use in healthcare, security, and HCI, balancing accuracy and computational efficiency.

Cookbook

4th semester Final project

- Developed a recipe-sharing web application with features like user registration, login, recipe submission, and search functionality.
- Implemented full-stack functionality using HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB.
- Enabled secure user authentication and session management for personalized experiences.
- Designed a responsive user interface and integrated CRUD operations for dynamic recipe management.
- Collaborated on GitHub with faizanamer123 (owner) and boxloid69(collaborator) using version control .

DOC-RAG

4th Semester Final Project

- Contributed to a Retrieval-Augmented Generation (RAG) system that allows users to query documents and receive context-aware answers.
- Migrated the entire project interface from Gradio to Streamlit, improving UI responsiveness and enabling seamless user interactions.
- Refactored input/output pipelines, file upload mechanisms, and dynamic response rendering to fit Streamlit's reactive workflow.
- Ensured cross-platform compatibility and deployed a user-friendly document QA interface with support for PDF ingestion and LLM-generated responses

VIM-Style Text Editor (Data Structures)

3rd Semester Final Project

- Engineered a text editor implementing multiple data structures including Linked Lists and Vectors
- Developed efficient text manipulation algorithms for insert, delete, and search operations
- Implemented file handling operations for reading and saving documents
- Created an intuitive command interface similar to VIM editor functionality

File Explorer System (Data Structures)

- Developed a comprehensive file management system using C++
- Implemented essential commands for i.e. read ,write , directory navigation etc.
- Utilized tree data structures for efficient directory hierarchy management
- Created robust file handling mechanisms for various operations

COVID-19 Data Visualization System

3rd Semester Final Project

- Created interactive Sankey diagrams using Python (Pandas, Matplotlib)
- Processed and analyzed large-scale COVID-19 datasets
- Developed dynamic visualizations for tracking infection and recovery patterns

Dr. Bite - Nutrition Application

3rd Semester Final Project

- Developed a full-stack Android application using Android Studio and Firebase
- Implemented real-time data synchronization and user authentication
- Designed intuitive UI/UX for diet tracking and nutritional recommendation

Stop Watch in Assembly

- Tackle start, resume and stop cases via a specific key
- Handle exit case

Vehicle & Ride Management Systems (OOP)

2nd Semester Final Project

- Designed comprehensive rental management system using OOP principles in C++
- Implemented inheritance, association, aggregation, and composition patterns
- Created complete database architecture with ERD diagrams in SQL
- Developed efficient relationships between tables and entities

Ping Pong Game

1st Semester Final Project

- Developed a complete game engine implementing complex ball physics and collision detection
- Designed and integrated ball randomization algorithms for unpredictable gameplay
- Implemented advanced features including precise deflection mechanics and realistic bouncing dynamics
- Created an adaptive difficulty system with multiple levels of challenge

LEADERSHIP & COMMUNITY INITIATIVES

Founder & Lead - CODE CRUSHERS | 2024 - Present

- Founded and manage a coding platform fostering technical skill development
- Organized and led successful GitHub workshop session

Student Ambassador - Search Opal

- Represent and promote technical initiatives within the academic community
- Facilitate technical learning sessions and community engagement

AICP Society Member | Sep 2023 - Present

- Participate in AI research initiatives and event organization
- Contribute to internship programs and technical workshops

Islamic Society Member | Nov 2023 - Present

- Create and manage digital media content for Islamic awareness
- Organize and facilitate educational webinars

Kaar-e-Kamal Welfare Foundation | Sep 2023 - Present

- Conduct donation drives and case investigations
- Manage data collection and stakeholder communication

SKILLS

- **Languages & Frameworks:** C++, SQL, JS, Python, HTML, CSS, React, Express.js
- **Development Tools:** Android Studio, Firebase, Google Collab, VS code, Scratch
- **Database Management:** MySQL, Firebase Realtime Database, MongoDB
- **Version Control:** GitHub
- **Technical Writing:** Documentation, Academic Writing

LANGUAGE

- **English:** Professional
- **Urdu:** Native