


Rizwan Shah

+923060098175 | shahrizwan403@gmail.com | Github | LinkedIn | Google For Developer

PROFILE

Dedicated and results-driven Flutter Developer with expertise in AI, machine learning, and deep learning. Demonstrates a robust work ethic and a proven track record of delivering high-quality projects. Possesses exceptional time-management skills and an unwavering commitment to continuous skill enhancement. Approachable and diplomatic, excels both independently and collaboratively. Known for effective problem-solving through active listening and innovative solutions.

EDUCATION

BS Software Engineering, 2020 – Jul 2024
Comsats University Islamabad Abbottabad campus  Abbottabad, Pakistan

- **CGPA:** 3.32
- **Core Courses:** Programming Fundamentals, Data Structures and Algorithms, OOP, Introduction to Software Engineering, Web Technologies, Mobile App Development, Database Systems, Software Project Management, Design Patterns.

DAE Electrical, *Government College of technology Abbottabad* 2017 – 2020
Abbottabad, Pakistan

- **Marks:** 2640/3550 | **Percentage:** 74%
- **Core Courses:** Principles of Electrical Engineering, D.C Machines & Batteries, Electrical Instruments & Measurements, Basic Electronics, Digital Logic Design, A.C. Machines, Transmission, Distribution and Protection of Electrical Power Systems, Telecommunication

SSC, *Oxford Science School And College Chokara Karak* 2016 – 2017
Karak, Pakistan

- **Marks:** 878/1100 | **Percentage:** 79.8%
- **Core Subjects:** Physics, Chemistry, Mathematics, Biology

PROFESSIONAL EXPERIENCE

Student Ambassador, *Orca Clan Tech* Apr 2024 – present
Abbottabad, Pakistan

- Acted as the liaison between the company and the student community.
- Promoted the company's products, services, and events within the academic environment.
- Organized and participated in campus events, workshops, and informational sessions.
- Provided feedback to the company on student interests and concerns.
- Helped build brand awareness and fostered relationships with potential users and recruits.

Trainee, *Microsoft College of Computer and Management* Feb 2024 – Jul 2024
Abbottabad, Pakistan

- Taught courses in Mobile App Development (Flutter, Android) and Web Development (HTML, CSS, JavaScript).
- Focused on hands-on projects and real-world applications.
- Developed course materials tailored to industry needs.
- Provided personalized guidance and feedback to students.
- Ensured students acquired industry-relevant skills.

Trainee, Google Developer Student Club <ul style="list-style-type: none"> • Served as a trainee at Google Developer Student Clubs (GDSC) for one year, teaching Flutter from basic to advanced levels. • Trained two batches of club members, providing hands-on experience and guiding them through real-world projects. • Developed and delivered a structured curriculum, ensuring members gained a strong foundation in mobile app development. 	Sep 2023 – Jul 2024 Abbottabad, Pakistan
IT GURU, Google Developer Student Club <ul style="list-style-type: none"> • The Head of IT Ninjas Group • Handle technical aspects • Manage Technical platforms • Provide technical support for Google's Solution Challenge under the Limited Time Frame. 	Aug 2023 – Jul 2024 Abbottabad, Pakistan
Vice President, Artificial Intelligence Community Pakistan <ul style="list-style-type: none"> • Led and oversaw the strategic direction of the Artificial Intelligence Community. • Fostered collaboration and knowledge sharing among members. • Organized workshops, seminars, and events to promote AI education and innovation. • Ensured the community's growth by engaging with new members and expanding outreach. 	Aug 2023 – Jul 2024 Pakistan
Flutter Developer, Uniyo Ltd <ul style="list-style-type: none"> • Designed and implemented responsive UIs using Flutter code. • Managed state effectively using GetX for seamless user experiences. • Integrated payment gateways to facilitate secure transactions. • Connected the app to Firebase, writing efficient queries for fast data retrieval. • Optimized app performance to enhance speed and user satisfaction. 	May 2023 – Apr 2024
Flutter Intern, The Editing Factory <ul style="list-style-type: none"> • Developed and optimized UI responsiveness to ensure seamless experiences across devices. • Created reusable components for efficient and scalable development. • Implemented dynamic features to enhance user interactivity and engagement. 	Oct 2022 – Jan 2023
Competitive Programming LEAD, Google Developer Student Club <ul style="list-style-type: none"> • Organized and led competitive programming sessions and coding challenges. • Designed problem sets and curated resources to enhance participants' problem-solving skills. • Fostered a collaborative environment to encourage peer learning and teamwork. • Provided guidance on strategy and best practices for excelling in competitive programming. • Evaluated participant performance and provided constructive feedback for improvement. 	Aug 2022 – Jul 2023 Abbottabad, Pakistan

PROJECTS

Advanced Bone Marrow Cell Classification Application, *Final Year Project*

- **Robust AI Model:** Trained on a huge dataset of labelled microscopic cell pictures, the AI model performed well with a loss of 0.2286, an accuracy of 0.9418, a validation loss of 0.4207, and a validation accuracy of 0.8856.
- **Mobile Application:** Developed using the Flutter framework, this user-friendly app enables healthcare providers to upload bone marrow cell images for real-time classification.
- **Tools/ Techniques:** Google COLAB, Python, CNN, MobileNet, Classification, Kaggle, Flutter, Keras, Tensorflow, Firebase, Flask API, GitHub.
- **Project Achievements:** Selected as a finalist in the Google Solution Challenge 2024, Secured 1st position in the Build with AI Idea Competition at GDSC, CUI ATD, Achieved Runner-Up position in the SparkPitch Idea Competition at Tech Vision, Islamia College

Gesture Based Media Controller

- Developed a multi-task neural network model for object detection and classification.
- Implemented custom data generators to handle image augmentation and preprocessing.
- Achieved an overall classification accuracy of 87.08% on the test set.
- Utilized Mean Squared Error (MSE) for bounding box regression and categorical cross-entropy for classification.
- Employed advanced techniques such as early stopping and learning rate reduction to enhance model performance.
- Developed a cross-platform desktop application using Flutter to integrate the trained model for real-time gesture-based media control.
- **Tools/ Techniques:** Python, TensorFlow, Keras, OpenCv, ImageDataGenerator, NumPy, JSON, FlaskApi, Flutter

Detection of Osteoarthritis using Advance Segmentation in Radiographic Images

- Integrated a U-Net for precise segmentation of radiographic images and a MobileNet-based model for classifying osteoarthritis severity into five categories: Normal, Doubtful, Mild, Moderate, and Severe.
- Implementation on various Techniques using Deep Learning and Traditional Machine learning Methods and Comparison matrices.
- Implemented early stopping and learning rate reduction techniques to enhance model training and prevent overfitting.
- **Tools/ Techniques:** Python, TensorFlow, Keras, OpenCv, UNET, MobileNet, CNN, ImageDataGenerator, NumPy, JSON, FlaskApi

Uniyo Ltd

- Developed the Uniyo app to streamline service provision and booking for both customers and service providers.
- Implemented key functionalities including user authentication, service management, search and booking capabilities, payment processing, and notifications.
- Designed the app with future enhancements in mind, such as adopting Clean Architecture, integrating secure data handling practices, and enabling dynamic QR-based bookings.
- **Tools & Techniques:** Flutter for cross-platform development, GetX for state management, Firebase for backend services and authentication, Stripe for payment processing, and QR code generation libraries for dynamic bookings.

Personal Portfolio

- Created a personal portfolio website using HTML, CSS, JavaScript, and Bootstrap.
- Designed the site to be fully responsive, ensuring optimal viewing and usability across various devices and screen sizes.
- Showcased projects, skills, and achievements with a clean and professional layout.
- **Tools & Techniques:** HTML for structure, CSS for styling, JavaScript for interactivity, and Bootstrap for responsive design and layout.

Complaint Application for Residentials

- Developed a fully responsive mobile app using Flutter to streamline complaint management for residential users.
- Implemented state management with GetX for efficient data handling and seamless user experience.
- Designed the app to facilitate easy complaint submission and tracking, ensuring effective communication between residents and management.
- **Tools & Techniques:** Flutter for cross-platform development, GetX for state management, Firebase for backend services and data storage, and responsive design principles to ensure compatibility across various devices.

Ecommerce App

- Developed a comprehensive ecommerce app using Flutter to facilitate online shopping experiences.
- Implemented state management with GetX to efficiently handle user interactions and data flow.
- Designed a fully responsive UI to ensure a seamless experience across various devices and screen sizes.
- Integrated features such as product browsing, cart management, and order processing to provide a complete shopping experience.
- **Tools & Techniques:** Flutter for cross-platform development, GetX for state management, and responsive design principles to enhance usability and visual appeal.

SKILLS

KEY SKILLS

- Flutter, Dart
- Java, C/C++, C#
- HTML, CSS, JavaScript
- Python, TensorFlow, Karas
- Artificial Intelligence
- Machine Learning
- Digital Image Processing
- Neural Networks
- Deep Learning

TOOLS/API's

- TensorFlow, Keras
- Google Cloud Platform
- VS Code, Jupyter Notebook, Google Colab, PyCharm
- Git, GitHub
- Flutter, Dart SDK, DartPad, Dart DevTools
- Visual Studio, Android Studio
- Firebase

SOFT SKILLS

- Leadership
- Teamwork and adaptability
- Problem-solving and Decision Making
- Time Management and Organization
- Open and adaptive
- Community Engagement and Socialization

PROGRAMMING LANGUAGES

Python
C/C++
C#
Java
HTML, CSS, JavaScript
Dart

DATABASES

- Microsoft SQL Server
- MySQL
- Microsoft Access
- Firebase
- MongoDB

SYNOPSIS OF ACHIEVEMENTS

Academic Achievements

- Our project was selected for the Google Global Solution Challenge 2024.
- Achieved 1st position in the Build with AI Idea Competition at GDSC, CUI ATD.
- Received a certificate for leading a Web Development workshop, showcasing expertise in HTML, CSS, and JavaScript in 2024.
- Achieved Runner-Up position in the SparkPitch Idea Competition at Tech Vision, Islamia College.
- Awarded the Shield of Resource Person at Government College of Technology Abbottabad for "Mobile App Development Using Flutter" in 2023.
- Received the Shield of Outstanding Performance at Google Developer Students Club as IT GURU in 2023.

Leaderships and Community Engagements

- Conducted courses on Web Development and Mobile App Development at Microsoft College of Computer Management Abbottabad.
- Completed a three-day workshop on "Building Entrepreneurship Skills Training Program" by R.E.D International.
- Received a Certificate of Appreciation from Artificial Intelligence Community of Pakistan for outstanding work in 2023 and 2024.
- Organized a Hackathon on Build with AI Idea Competition at GDSC, CUI ATD.
- Organized an event on "Data Science: A Safari Trip" at GDSC, CUI ATD.
- Achieved Runner-Up position in the SparkPitch Idea Competition at Tech Vision, Islamia College.
- Coordinated an event on "Future Technologies and Blockchain for Everyone" at GDSC, CUI ATD..
- Organized a Hackathon with modules like Web Master, Coding Guru, and UI/UX Ninja at GDSC, CUI ATD.

REFERENCES

Dr. Nuhman-ul-Haq, Assistant Professor, Computer Sciences,
Comsats University Islamabad, Abbottabad Campus
nuhman@cuiatd.edu.pk

Shams-ul-Haq, Assistant Professor, Mathematics Dept,
Comsats University Islamabad, Abbottabad Campus
shams@cuiatd.edu.pk

Jawad Khan, Lecturer, Computer Sciences, Comsats University Islamabad, Abbottabad campus
jawadkhan@cuiatd.edu.pk

Shruti Raj, Product Manager, Factacy.Ai
contactme.shrutiraj@gmail.com