



ABDUL RAFAY CHOCHAN

Software Engineer

Location: Lahore, Pakistan

Portfolio: [Rafay-chohan.github.io](https://github.com/Rafay-chohan)

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Summary

Results-driven **Software Engineer** with expertise in **Android Development, AI/ML**. Passionate about solving real-world. Hands-on experience in **machine learning, automation, and mobile app development**. Currently an **Associate Software Engineer Intern at EIX**, gaining proficiency in **Java development and Digital Asset Management (DAM) services**.

Experience

EIX (Enterprise Information Xperts)

Associate Software Engineer Intern

01/2024 - Present

- Debugged and enhanced existing **Java microservices**, improving system efficiency.
- Contributed to **Java-based backend services and OTMM (OpenText Media Manager)** solutions.
- Deployed and Configured OTMM services for clients.

Digital Empowerment Network

Machine Learning Intern

08/2024 - 09/2024

- Built various **machine learning models** for different use cases.
- Implemented **data preprocessing, feature engineering, and model evaluation techniques**.

M-Labs

Game Development Intern

06/2024 - 08/2024

- Designed and developed a **mobile game using Unity and C#**, incorporating mechanics inspired by **Angry Birds and Ricochet Kills**.
- Optimized **physics-based interactions** and implemented custom game mechanics to enhance user engagement.

Projects

VRhythm (VR App)

10/2024 - Present

Developing a **VR-based music learning app in Unity** using **hand gesture recognition** to play and learn musical instrument. 3D Virtual Space was created where user can interact with the instrument. For learning for beginners visual cues were added for any song the user wanted.

AI/ML Projects

<https://github.com/Rafay-Chohan/Machine-Learning>

08/2024 - Present

- **Image Generation (VQ-VAE Model):** Developed a **VQ-VAE model** to generate images based on labeled data.
- **House Price Predictor:** Built a **Linear Regression model** to estimate house prices using **feature engineering & data normalization**.
- **Spam Email Classifier:** Created a **Naive Bayes & SVM-based classifier** to detect spam emails, incorporating **TF-IDF**

vectorization & NLP preprocessing.

- **Customer Churn Predictor:** Applied **Random Forest & Logistic Regression models** to predict customer churn.
- **CNN Image Classifier:** Designed a **CNN model with 3 convolutional layers** to classify CIFAR-10 dataset images.

[LifeSync \(Android App\)](#)

<https://github.com/Rafay-Chohan/LifeSync>

02/2024 - 05/2024

Individuals with ADHD struggle with daily task organization. So for that Developed a **Java-based Android app** providing personalized **task scheduling, reminders, and productivity tracking**.

[Arc Encrypt \(Android App\)](#)

<https://github.com/Rafay-Chohan/Arc-Encrypt>

06/2024

Privacy concerns in text messaging due to insecure communication channels. Created an **encryption-based app using Java**, utilizing a **coprime encryption algorithm**.

[Youtube Automation Script](#)

01/2025

Created a script using **python** and **youtube Api** that takes all the videos in a folder, resizes them, finds title and tags and uploads to your youtube channel all with just 1-click

[Shopify Store](#)

01/2025

Ecommerce Shopify Clothing store was created for client. The store was themed for traditional clothes and included multiple collections. for each collection different templates were create to enhance modularity and allow ease in future changes.

[Rescue Shelter Management System \(Web App\)](#)

<https://github.com/Rafay-Chohan/AnimalShelterManagementSystem>

01/2023 - 05/2023

Built a Management system using **PHP & MySQL** for backend and **HTML & CSS** for front-end. It consisted of various features like **animal records, adoption applications, and donations, NGO Event handling and portfolio for the NGO**.

Skills

Programming Languages: C, C++, Python, Java, PHP

Machine Learning & AI: Python, TensorFlow, CNNs, NLP, ANN, Data Preprocessing

Android Development: Java, Kotlin, XML

Automation: Selenium, Python, Beautiful Soup

Database: SQL, MySQL, Firebase

Game Development: Unity, C#

Education

[National University of Computer and Emerging Sciences](#)

B.Sc. in Computer Science

2021 - 2025

[PakTurk Maarif International Schools and Colleges](#)

Intermediate (Pre-Engineering)

2019 - 2021

Awards

[Dean's List of Honor](#)

National University of Computer and Emerging Sciences