

**EDUCATION****Forman Christian College (A Chartered University)****Lahore, Punjab, Pakistan**

- **Major:** Computer Science **B.A. Expected June 2023**
- **Relevant Coursework:** Data Structures, Design & Analysis of Algorithms, Operating Systems, Software Engineering, Database Systems, Numerical Computing, Linear Algebra, Discrete Mathematics, Computer Organization, Introduction to Computer Science, Calculus I, Web Programming with Python and JavaScript
- **Cumulative GPA:** 3.965/4.00
- **Awards and Honors:** Vice Rector List (GPA above 3.7) for 4 consecutive semesters

**EXPERIENCE****Co-founder and Lead Software Engineer, RÖZ****Oct. 2021 – Present**

- Redefining healthcare and empowering users with control of their health via early breast cancer detection hardware and software powered with machine learning models
- Developing a full stack web and a mobile application from the ground up that can receive stream data from our thermal scanning hardware
- Integrating and implementing modern development, authentication, and cryptography techniques
- Leveraging extensive database and input validation of data models represented via Mongoose and MongoDB to securely store user information including thermal scans, location, and medical history
- Using Azure and its services such as Azure Virtual Machine to host our model send and receive data and using Azure deployment services such as Azure Mobile App Services

**Freelance Software Engineer, BloxStaking, SSV.Network, WeTradeDaily****Nov. 2021 – Present**

- Development, deployment, and maintenance of a GoerliETH Faucet with built in automated verification and tracking of user limits with a volatile Redis based cache employing etherscan API and web3

**Operation and Supervision of Laser Cutting Machines, Intersteel Wrought Iron****Jun. 2019 – Aug. 2019**

- Lead Trained to operate maintain and supervise industrial laser cutting machines
- Disseminated the training to further employees supervising their progress and skill

**PROJECTS** Available to view on Github**Open-Source Custom BEP20 Token Bot.****Apr. 2020**

- Implementation of a custom BEP20 token deployed on the Binance Smart Chain using truffle and automated using a combination of the discord API and web3

**Data Model to Calculate Perceptions Surrounding Online Learning.****Apr. 2021**

- Participation and selection as top 5 data models in Stanford Open Datathon 2021
- Studied the connection between the sudden shift in modality of education and its influence on the future viability of online education in the eyes of the Pakistan academic space
- Leveraged twitter API to scrape through tweets to use as an indicator for perceptions
- Used a survey to gather further data as a second indicator
- Both indicators were combined to create a data model
- Gauged perceptions to weigh in on the future of online learning in a post pandemic Pakistan

**CS50 Projects on Django/SQL/JavaScript.****May. 2021**

- Full mock backend development of Wikipedia-like site using Django
- Usage of JavaScript, HTML and CSS to create a single page app email client

**AWARDS & ACHIEVEMENTS****Microsoft Imagine Cup 2022 Epic Challenge Winner.****Dec. 2021**

- EMEA region winners as ROZ development team for our proposal of AI assisted breast cancer detection app.

**Stanford Open Datathon Top 5 data model.****Apr. 2021**

- Project 'The Future of Online Learning in a Post Pandemic Pakistan' chosen as top data models

**SKILLS**

- **Technical Skills:** Java, Python JavaScript (Strongest), MongoDB, Postgres, React, Express.js, Blockchain, Solidity, Truffle, Web3, Machine Learning, R, SwiftUI, Django, HTML, CSS (familiar)
- **Spoken Languages:** English, Urdu, Hindi, Punjabi (fluent), German (basic)
- **Interests:** Hiking, Writing, Gaming, Filmmaking