Hamza Asaad

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Nationality: Pakistani

Education

08/2019 - 08/2023 **Forman Christian College,** Bachelor **Lahore, Pakistan**

- **Major:** Computer Science
- **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:** 3.896/4.0
- **Awards & Honors:** Microsoft Imagine Cup 2022 Epic Challenge Winner & World Finalist, ETHglobal-Polygon, Road to Web3 Prize Winner, Stanford Open Datathon Top 5 data model

08/2014 - 06/2018 **Beacon House Defence,** Cambridge A & O Level **Lahore, Pakistan**

- **A Level:** Pre Engineering. Courses Included (Mathematics, Physics, Chemistry)
- **O Level:** 4A's 4B's Sciences. Courses Included (English, Mathematics, Physics, Biology, Chemistry, Urdu, Pakistan Studies, Islamiat)

Experience

07/2023 - Present **Dubizzle Labs,** Software Engineer **Lahore, Pakistan**

- Engineering modules for one of the main CRM's offered as product by the Dubizzle group; Propforce
- Developing Propforce's backend with a modern technology stack MERN
- Built the CRMs entire training module from the ground up handling allocation, tracking and management of users courses and assessments
- Revamped affiliates module improving workflows for affiliated clients and their leads across the application
- Improved staff targets within the app to enable accurate and timely distribution of targets and their achievement

08/2023 - Present **mindcusp,** Software Engineer **Lahore, Pakistan (Remote)**

- Full stack development of an ATS platform using a cutting edge technology stack
- Featuring frameworks such as NEXT and NEST to develop a robust website to help companies meet the right candidates
- Integrated various job posting websites to such as facebook, indeed, google to market jobs
- Added analytical tracking of jobs and candidates tracking to display relevant workable metrics for companies

09/2022 - 12/2022 **DPLACE AI,** Frontend Engineering Intern **San Jose, CA, USA (Remote)**

- Managed a team of two web developers to ensure balanced workload, met deadlines, and high quality code
- Used NEXT JS with SSR and CSR Hydration to leverage prerendering, lazy loading, and caching techniques
- Focused on performance through strategic engineering to manage large quantities of images at a time while creating an effortless and efficient UI/UX

09/2022 - 12/2022	**RŌZ,** Cofounder and Lead Software Engineer	**Lahore, Pakistan**

- Redefining healthcare and empowering users with control of their health via early breast cancer detection hardware and software powered with TensorFlow Keras Sequential CNN model with 91% detection accuracy
- Developed a full stack (MERN) web and a mobile application from scratch
- Automatically process and analyze streamed raw thermal image scans from Lepton Flur via Bluetooth and USB
- Maintaining extensive database and input validation of data models represented via Mongoose and MongoDB
- Host model, deploy app, and receive data via Azure Cognitive Services, App Services

12/2021 - 06/2023	**Fluid Finance, BloxStaking, SSV Network,** Freelance Software Engineer	**Lahore, Pakistan (Remote)**

- Headed freelance teams of up to five developers for top alt currency orgs, BloxStaking and Fluid Finance
- Automated GoerliETH Faucet to enable the rapid growth of the SSV.network incentivized test net
- Built automated verification and tracking of user limits with a volatile Redis based cache.
- Monitored and scraped blockchain data via Etherscan API and web3

Projects

Mindsight: Mental Health Diagnosis AI, Thesis

- Built on a locally procured dataset of 80,000 entries of mental health patients from the Fountain House
- Mental Health Institute Lahore
- Developed 2 models one using the SVM model and a Neural Network and compared the results
- Integrated AI model using Flask to communicate with a website frontend
- Our users could answer questions and receive guidance on their mental health

DeepLearning.AI Neural Networks Image Detection

- Leveraged vectorization, broadcasting techniques to write Logistic Regression algorithm from scratch to
- create a multi layer perceptron
- Implemented cross entropy loss function from scratch to find maximal parameters during model training
- Achieved a 96% accuracy on unseen data in the final iteration.

Open-Source Custom BEP20 Token Bot

- 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
- Deployed by WeTradeDaily on discord to run a crypto trading training program for their audience

Data Modelling Perception Surrounding Online Learning

- Selected as top 5 data models in Stanford Open Datathon 2021
- Leveraged twitter API to scrape 200,000+ tweets and a survey as indicators for perceptions both indicators were combined to create a data model

Skills

- **Technical Skills:** Java, Python, JavaScript (Strongest), TypeScript, C, MongoDB, Postgres, MySQL, React, Express.js, Blockchain, Solidity, Truffle, Web3, Deep Learning, R, SwiftUI, Django, HTML, CSS, Azure Services
- **Spoken Languages:** English, Urdu, German(A1)
- **Interests:** Hiking, Writing, Documentaries, Filmmaking