MOHAMMAD ABUBAKAR

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EDUCATION

- BS in Computer Science   National University of Sciences and Technology, Pakistan
- **Graduation:**   June, 2021   **Cumulative GPA:**   3.85 / 4.0

WORK EXPERIENCE

- **Freelancing**
  Platform: Fiverr   Feb, 2020 – Present
  Worked with clients from diverse countries in different tasks and still maintaining 5 stars rating.

- **App development**
  Platform: Android   Oct, 2019 – Jan, 2020
  Developed 6 simple but yet useful poetry and book apps. 3 apps with more than 50k and overall more than 160k installs.

TECHNICAL SKILLS

I am always willing to learn new skills and new technologies. Some of my skills are:
- Proficient in Python, Java, C/C++
- Proficient in HTML, CSS, JavaScript / jQuery, NodeJS, Express
- Proficient in Data Structures and Algorithms
- Proficient with MySQL Database
- Proficient in Machine Learning
- Better at Problem-Solving

SOFTWARE SKILLS

Eclipse, PyCharm, Jupyter Notebooks, Logisim, MySQL Workbench, Visual Studio, Android Studio

CERTIFICATIONS

Microsoft Office Specialist for Word, PowerPoint, Excel

ACADEMIC PROJECTS INCLUDING HOBBY CODING

- **AI based HTML code generation from a Web Design Image – Final Year Project**
  Our project addresses the problem of converting a web design image template into HTML by reducing the time required to code it from scratch. Our AI based solution would generate the code for the provided image template itself using advanced techniques in Deep Learning e.g., Convolutional Neural Networks, Long Short-Term Memory.

- **Web development**
  Designed website with several pages using HTML, CSS, PHP

- **Floyd Steinberg Dithering Algorithm**   **(Python)**
  A dithering algorithm that uses Error Diffusion

- **Multi-servers-based File Downloader**   **(Python)**
  A local network file downloader where a client can download a file using all the available servers which host that particular file. The project also handled server failure and load balancing among the servers.

- **Virtual File System**   **(Python)**
  A file system that was implemented using the concepts of operating systems like synchronization, file locking etc. It can also be operated remotely from another computer on the same network.

- **File Compression based upon Huffman Coding**   **(C++)**
  A file compressor based on Huffman Coding was implemented that helped in reducing the size of the file.

- **School Management System**   **(Java)**
  A management system was implemented where the admin can check and edit the information about the students, staff and the faculty.

- **Tic Tac Toe Game**   **(Java)**
  A single person (against computer) or two-person multiplayer game implemented using Java.

- **Solitaire Encryption**   **(C)**
  An encryption algorithm to encrypt and decrypt message.

- **Caesar Cipher**   **(C, Python)**
  An encryption algorithm that can be used to encrypt and decrypt the message using a key.

- **Water Level Indicator with Automatic Motor Control**   **(Arduino)**
  A prototype implemented using Arduino that indicates water level in a tank and automatically starts and stops the motor at a certain level of water in the tank.

Non-Academic Activities

- **Local Hack Day Hackathon**   **2018**
  Me with my friend developed a web scraping tool to upload content to the google drive automatically with selenium and python.

- **Code Fest 21**   **2021**
  Me with my teammate choose the problem of demand forecasting and analyzed the data and developed a model with TensorFlow and other related libraries.