FATIMA EHSAN Full stack developer

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Visa Status: Visit Visa valid until 2nd Dec, 2019

Professional Summary:

A committed and hardworking full stack developer with over three years of experience with software companies. Has worked with determination on latest technologies like PHP, Node Js, Bootstrap and Magneto to bring help add value to the company worked with. Is highly enthusiastic, a great team player and always driven to learn more.

Education:

- **Masters of Computer Science** National University of Science and Technology (2019)
- **Bachelor of Computer Engineering** National University of Science and Technology (2016)

Publication:

IEEE Access - Automated Brain Tumor Segmentation using Multimodal MRI scans

Career History:

- **Artificial Intelligence Lecturer – Air University**
  One of the top Engineering universities in Pakistan
  (June 2019 – Present)
  Responsible for carrying out teaching and research duties. Responsible for organizing lectures and supervising seminars
  - Involved in the research and designing of new courses and materials.
  - Responsible for the departmental administrative tasks.
  - Implementing University research projects and involved in its publication.

- **Wrollit – Full stack developer**
  Top software house in Pakistan
  (September 2017 – June 2019)
  Responsible for developing android applications for the company that was to be provided to clients.
  - Responsible for UI/UX of android applications.
  - Responsible for developing websites and other small projects as well using bootstrap.
  - Keeping team members motivated.

- **Ardic – Software Engineer**
  (September 2016 – June 2017)
  - Development of prototype; enemy object tracking software
  - Implementation using Machine Learning
  - Coordination with Management team

- **Renewable Energy Resources, Islamabad – Software Intern**
  (June 2015 – September 2015)
  - Responsible for web development projects of the company
  - Management of company database
  - Coordination with team lead for customer requirements

Selected Projects:

1. Smart Homes and Gardening system: Android studio, HTML, Firebase, CSS

An android application was developed in order to help the end user interact with all the devices in the house. A similar application was developed for monitoring the health of plants in the garden. Data was collected by deploying sensors in the garden and connecting the hardware to cloud.

2. Automated Detection of Brain Tumor in Multimodal MRI Scans: JAVA, MysQL, MATLAB
A web application was developed that made use of images in the database to deploy deep learning techniques to segment out healthy and tumorous tissues in the brain.

3. Diabetes detection using EEG signal: .NET, MySQL
A web application was developed to test the signal of diabetic patients and classify them either into diabetic or non-diabetic category. This was done using .NET and SQL.

4. Military Aircraft game/Simulator: .NET, BOOTSTRAP, Android Studio
A web application was developed at first which was later converted into an android game. The 3D models were developed using blender and 3DsMAX. The application was later converted into Android game.

5. Movies and Book Recommending System: .NET, BOOTSTRAP, Android Studio
A web application was developed that collected the data of the users in a database. Then later by analyzing the data, suggested movies and books.

6. Speech Recognition: Arduino, MATLAB
A software was developed in order to recognize speech. This project was based on SQL database and machine learning algorithms.

Certification:
- Arizona State University – Teach English now
- Stanford University – Machine Learning course on Coursera

Skills:
- **Python, JAVA, ASP.**NET, **Bootstrap**
- **HTML, CSS, JavaScript, Android Studio, MySQL**
- **Good communication and leadership skills**
- **Professional fluency in English, Dutch and Urdu**

Achievements:
- Secured 98.47 percentile in Graduate Aptitude test
- Got distinction scholarships from government of Pakistan
- Studied engineering from one the top engineering universities in Asia
- Conducted career counselling and character building workshops at various schools

Volunteer Work:
- Project Manager at NUST Volunteer's Club
  - Was responsible for overseeing volunteering events and Conducted 10+ fund raising events
- Free tuition for underprivileged students
- Co-founder of The Pathani Project
  - The project was taken up to give regular charity to a poor Pathani family for basic necessities such as clothes, food and education
- Conducted fund raising bake sales three years in a row and generated a revenue of approx. 1000 USD

References: Available on request