

# Ahmer Ejaz

COMPUTER SCIENTIST

Islamabad, Pakistan

☎ (+92) 3085750762 | ✉ ahmerejaz.nu@gmail.com | 📱 ahmerejaz | 💻 ahmer-ejaz-b92740149

“The best way to predict the future is to create it.”

## Objective

A result oriented Computer Science major currently attending FAST NUCES, with exposure to working across the full-stack of software development. Aiming to leverage proven technical, problem-solving, and teamwork skills to successfully fill the Full-Stack Developer role at your company and continue to learn from other experienced team members.

## Education

### BS Computer Science

Aug. 2018 - Jul. 2022

FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

Islamabad

#### Courses

- Data Mining (SciKit, Numpy, Pandas, Python)
- Blockchain and Cryptocurrency (BTC, EVM, Solidity, NFTs)
- Artificial Intelligence (CNN Architectures, Keras)
- Natural Language Processing (NLTK, LSTM, Word2Vec)
- Web Programming (React.js, Angular, MVC5)
- Parallel and Distributed computing (OpenMP, MPI)

## Projects

### Tree Monitoring and Forest Spread Detection System (FYP)

08/2021 - Present

- **Technologies Used:** VGG16 CNN, Semantic Segmentation using U-Net CNN, Keras, Auto ML.
- **Description:** The project aims to optimize the process of planting trees, monitoring forests and detecting deforestation by using high quality satellite imagery combined with CNN in the backend. The user can check land features in an area by uploading the satellite images of that location; in addition user can observe deforestation in an area and can analyze forest growth as well.

### Patients' Analysis of Heart Attack Data (DM)

- **Technologies Used:** Python, SciKit, Anvil.
- **Description:** The project aims to perform an extensive experimentation using Naïve Bayes and K-Nearest Neighbor algorithms on patient dataset and using filter and wrapper classification methods on discrete data for feature subset selection.

### Blockchain Based Toll Tax Management System

- **Technologies Used:** Solidity, EVM, MetaMask, Node.js.
- **Description:** Implementation of Toll Tax system on roads using blockchain technique in solidity. Each car when passes through toll plaza it insert block in the blockchain. Toll tax is automatically deducted from metamask wallet of car owner.

### Distributed Password Cracker (PDC)

- **Technologies Used:** MPI, C++.
- **Description:** A clustered computing environment with multiple nodes running MPICH implementation of the MPI specification to decipher passwords of Ubuntu shadow file. The program uses brute force on a distributed system to assist faster decryption.

### Event Management System (SE)

- **Technologies Used:** .NET Framework, JS, HTML, CSS, Bootstrap, MySQL.
- **Description:** A web based .NET Framework MVC3 application with frontend built on HTML, CSS, Bootstrap and JS and MySQL as backend database. C# was used as all event handler in the forms like passing information between layers or filtering information. The application was fully working and consist of three main users: client, admin and manager and all have different access according to their role.

## Skills

Python C++ C# Solidity JavaScript Node.js SQL Numpy Pandas

Hadoop PyTorch MVC5 OpenMP MPI HTML CSS

Jupyter Notebook Visual Studio VS Code Eclipse Qt Creator Linux