# Nushirvan Naseer

A dedicated and hardworking individual with a passion to lead, a knack for programming and a little bit of an obsession with understanding the cosmos and the fundamental workings of the universe. I'm a person whose main driving forces are curiosity and a competitive nature. These characteristics of mine have aided me in advancing in my field at a fast pace, made me an effective leader, and a quick and enthusiastic learner.

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## EDUCATION

### Bachelors in Computer Science
FAST NUCES, Lahore

*08/2018 - Present*  —  *CGPA: 3.61*

*Achievements*
- Silver Medalist

### A' Levels
Lahore Grammar School, Johar Town, Lahore

*09/2016 - 08/2018*  —  *1A* and 2As*

## WORK EXPERIENCE

### Software Engineer/Project Manager
RipeSeed.io

*09/2021 - Present*

*Achievements/Tasks*
- Oversaw the development of multiple full stack projects involving AI and research like Beltway Brief, Codraft.ai, RoboReply, ProfilePro, Satoshi's Index, and a ChatGPT clone.
- Worked on a deep learning based calculator for medical practitioners
- Developed the frontend and backend of Satoshi's Index using ReactJS, Square, NestJS and PostgreSQL
- Worked on Chrome plugins and React Native app for AppointmentCore and ProfilePro
- Used ReTool to create a product ranking application for Vivere
- Worked on containerising a computer-vision aided number plate recognition software for deployment on an AWS EC2 server
- Briefly worked on FaceScope, a convict-recognition web app written in TypeScript and React JS

*Contact :  Osama Riaz, Engineering Manager  -  03204463469*

### Senior Vice President
NUCES ACM Lahore

*09/2021 - 08/2022*

*Achievements/Tasks*
- Organised and oversaw GeekWeek 2020 and 2022, along with multiple seminars, workshops and tech related competitions

### Teaching Assistant
FAST-NU

*09/2020 - 07/2021*  —  *Lahore*

*Achievements/Tasks*
- TA-ship for Programming Fundamentals and Data Structures

### Junior Developer
RUN Pakistan

*11/2019 - 08/2020*  —  *Lahore*
*A sports-based startup by FAST NU Alumni*

*Achievements/Tasks*
- Used Flutter to design the front-end for a cross-platform Ecommerce App

*Contact :  Mubeen Elahi  -  +92 302 4405000*

## SKILLS

Project Management · MERN Stack · React Native · Flutter · C++ · JS · Python · Retool · PyTorch · Linux · Git/GitHub · Docker · NestJS · Deep Learning

## PERSONAL PROJECTS

**Poetry Generation in Urdu using NLP (06/2021 - Present)**
- External FYP with Mr. Sarim Baig, Imperial College London
- Research to develop/build both modern transformer and conventional RNN based architectures to generate Urdu poetry
- The transformer model uses parallel processing and multi-headed attention to retain contextual information
- The RNN model consists of a GRU based stacked encoder-decoder architecture which uses both greedy and beam search decoding

**Simple Search Engine (11/2021 - 11/2021)**
- Created a simple command-line based search engine using Python
- Uses tf-idf, BM25 and Jelineck-Mercer smoothing/ranking techniques to identify data relevant to queries

**A* Path Finder (04/2021 - 04/2021)**
- An A* Star Algorithm based route finder. The application is able to find the shortest path between 2 points in a 2D maze.
- The GUI was written using Tkinter and PyGame.

**Auction System Web App (01/2021 - 01/2021)**
- Collaborative work on an auction system project for an international client. Done using React JS

**Time Table Creator (Console + Cross-Platform App) (08/2020 - Present)**
- A Time Table generator program written in Flutter and Dart to help students of FAST NU decide a clash-free time table
- The app is connected to Firebase Storage which allows updating the timetable to the latest version through the app without having to push an update
- A console version of the same program is also present which is written in Python

**App Store (10/2020 - 11/2020)**
- Created a desktop version of an App Store using SOLID principles
- The application front-end was written in Java FX, whereas the backend was written in plain Java
- MS-SQL and JDBC were used for database storage

**FAT32 File System Emulator (09/2019 - 09/2019)**
- A simple GUI based FAT32 File System Emulator written in C++ using the Qt framework for UI design

## INTERESTS

Competitive Programming · Full Stack Dev · Research · AI/ML · NLP · Sketching · Astrophysics · Cosmology