

# Mazeyar Moeini Feizabadi

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## EDUCATION

### HABIB UNIVERSITY

#### BS IN COMPUTER SCIENCE

Minor in Mathematics

Karachi, Pakistan

Dean's Honour List

CGPA: 3.5 / 4.0

2017 - Present

## ACADEMICS

### UNDERGRADUATE

Introduction to Deep Learning

Mathematics of Machine Learning

Artificial Intelligence

Algorithms: Design & Analysis

Computer Architecture

Software Engineering

Linear Algebra

Discrete Mathematics

OOP & Design Methodologies

Probability & Statistics

Data Structures & Algorithms

Web and Mobile Development

### WORK STUDY

Introduction to Deep Learning TA

Discrete Mathematics TA

Probability & Statistics TA

Data Structures & Algorithms TA

Python Winter BootCamp Organizer

## SKILLS

### PROGRAMMING

Over 5000 lines:

Python • Shell • C++ • JavaScript

C • Scientific Computing • Git •  $\text{\LaTeX}$

Over 1000 lines:

TensorFlow • Arduino IDE • CSS

HTML • Verilog • Spatial Analysis

Familiar:

Angular • Kubernetes • SQL • Docker

CMake • Ansible • Jenkins • AWS

### LANGUAGES

English - Native

Farsi / Persian - Proficient

French - Intermediate

Urdu - Elementary

### INTERESTS

Swimming • Chess • Piano

Aerospace • Entrepreneurship

Architecture • Photography

## EXPERIENCE

### AFINTI | DEVOPS INTERN

July 2019 - September 2019 | Karachi, Pakistan

- Wrote a python script to create CMake files given a file dependency graph in order to more quickly parallel compile our code.
- Wrote a bash script using Ansible to configure Kubernetes on multiple worker and master nodes using a single configuration file.
- Tested and configured workflow libraries for the development team.

### TAYLOR AND MILLER ARCHITECTURE AND DESIGN | INTERN

Summer 2016 - Summer 2017 | Great Barrington, Massachusetts

- Worked as a Landscaper/Carpenter/Constructor on multi-disciplinary projects with strict time limits.
- Worked with **Joya Studios** in the opening of their candle shop in NYC which was mentioned in **Vogue** and the **New York Times**.

## PROJECTS

### SATELLITE IMAGE PROCESSING | INDEPENDENT RESEARCH

June 2019 - Present | Karachi, Pakistan

An independent research project aimed to create easy satellite image processing tools including those below. Currently developing an API as well.

- Efficient data warehousing of large GeoTIFF image files
- Multispectral Image composition
- Agriculture/Vegetation health assessment
- Image mosaic and stitching

### ASCIIVIDEO | INDEPENDENT RESEARCH | GITHUB

Dec 2018 - Jan 2019 | Karachi, Pakistan

An open source Python project used for encoding any video format into ASCII text. This was achieved through efficient image processing with python libraries such as PILLOW, OpenCV, and Numpy.

### MANCALA-AI | GROUP PROJECT | GITHUB

Dec 2018 - Jan 2019 | Karachi, Pakistan

In this project, we added AI to the classic game of "Mancala", which is a two-player game in which the players have to move the stones on the board and try to capture as many stones as they can in their tray. Our implementation used Minimax & Alpha Beta Pruning, with a neural network cost function.

### DISCRETE MATHS BOOK | INDEPENDENT PROJECT | GITHUB

Dec 2018 - Jan 2019 | Karachi, Pakistan

Developed a book of meaningful discrete mathematics questions designed to help students learn as they solve and practice. The book is open-sourced with multiple contributors

## LEADERSHIP

- **Habib University Artificial Intelligence Club** - President and Founder
- **Astronomy and Physics Club** - Events Planner and Manager
- **Varsity Swim Captain** - Monument Mountain Regional High School
- **Nowruz (Persian New Year) Annual Celebration Committee Member**