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 • 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