Muhammad Umar

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EDUCATION

2020 - Present   **ILLINOIS INSTITUTE OF TECHNOLOGY**   Chicago, IL
Master of Computer Science
- Relevant Course Work: Data Mining with mini projects in R utilizing Linear Regression, Decision Trees, Ensemble methods, Association Rules, Neural Networks and PageRank algorithm

2015 - 2019   **NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES**   Karachi, Pakistan
Bachelor of Science in Electrical Engineering
- Runner-up in IdeaCom competition by FANAA - funding rewarded - April 2019
- Placed 3rd in Procom 2019 Hardware Exhibition - March 2019
- Won Smart Grid Showcase competition based on Switch Mode Power Supply project - Decemeber 2018
- Runner-up at MParsec Hackathon for blockchain based security for smartphone trading - April 2018

SKILLS

- Programming Languages: Python, R, JavaScript, C, C++, PHP, Dart
- Technologies: OpenCV, fast.ai, PyTorch, HTML/CSS, jQuery, Jira, Git, LaTeX
- Frameworks: React, React Native, Express, Laravel, Django
- Languages: English (Fluent), Urdu (Native), Arabic (Basic), Japanese (Basic Verbal)

PROJECTS

2018 - 2019   **COMMUNICATION ASSISTANCE FOR THE AUDIBLY IMPAIRED**   Karachi, Pakistan
Developer (Final Year Project)
- Trained a model for American Sign Language to translate gestures to audi for audibly impaired persons to communicate using Python3, OpenCV, Deep Learning (fast.ai, PyTorch) and Raspberry Pi 3 B+

2020 - 2020   **FITZ**   Chicago, Illinois
Full Stack Developer (VandyHacks 2020)
- Developed a React Native application for finding and hiring personal sports trainers in a desired location.

2020 - 2020   **PROJECTANT**   Karachi, Pakistan
WordPress Developer (Freelance) (Remote)
- Developed a responsive landing and sign-up page for ProjectANT.io utilizing WordPress and Oxygen visual editor

2020 - 2020   **RHYTHM TYPER**   Karachi, Pakistan
Personal
- Crafted a web-based rhythm game binding beats with keyboard inputs for PCs based on Paper.js and Howler.js for studying animations using Canvas.

2020 - 2020   **PUNJAB TUBEWELL**   Karachi, Pakistan
WordPress Developer (Freelance) (Remote)
- Designed and deployed PunjabTubewell.com, a responsive informational website with Facebook and WhatsApp integration using WordPress and Oxygen

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EXPERIENCE

2019 - 2020   **VENTUREDIVE**   Karachi, Pakistan
Associate Software Engineer
- Operated as a Full Stack Developer with zGlue, Circadia. and Vendians

2019 - 2020	**ZGLUE** *Full Stack Developer (Office to Remote)*	Karachi Pakistan

- Decreased chiplet entry time by 50% by initiating and implementing template scripts for quick chiplet creation process
- Led and managed a team of interns in three different countries for 1500 chiplets target
- Supervised the ZEF format for standardizing 2000+ chiplet data

2020 - 2020	**VENDIANS** *Full Stack Developer (Remote)*	Karachi, Pakistan

- Built the structure and led the implementation of the new employee profile module with permission-based rendering
- Created UI field generate utilities for generating dynamic components to allow modular scalability and convenient creation of any section

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PUBLICATIONS

- H. A. Qazi, U. Jahangir, B. M. Yousuf and A. Noor, "Human action recognition using SIFT and HOG method," 2017 International Conference on Information and Communication Technologies (ICICT), Karachi, 2017, pp. 6-10

PERSONAL

- Hobbies: Swimming, Basketball, Video Games, Anime, Video Editing and Movies
- Video Game Trailers editor on Youtube
- Deep Learning in Python Course - DataCamp certification - January 2019
- Convolutional Neural Networks - DataCamp certification- January 2019