

# Muhammad Umar

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## EDUCATION

2020 - Present

### ILLINOIS INSTITUTE OF TECHNOLOGY

*Master of Computer Science*

- GPA: 3.5 / 4.0
- Specialization in Computational Intelligence
- Relevant course work: Data Mining, Introduction to Algorithms, Database Organization

2015 - 2019

### NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

*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
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## EXPERIENCE

2019 - 2020

### VENTUREDIVE

*Associate Software Engineer*

- Worked as a Full Stack Developer working using JavaScript with React.js, Node.js, Docker and Python where needed. Utilizing tools such as Git, JIRA and Jenkins with Microsft Azure servers in sprint-based projects such as:

#### **zGlue**

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

#### **Vendians**

- Built the structure and orchestrated the implementation of the new employee profile module with permission-based rendering for the Vendians project
- Created UI field generation utilities for creating dynamic components allowing modular scalability and convenient creation of any page or section

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## SKILLS

- Programming Languages: JavaScript, Python, R, C, C++, Dart, PHP
- Frameworks: React, Node.js, React Native, Express, Laravel, Django, PostgreSQL, MySQL
- Technologies: OpenCV, fast.ai, PyTorch, HTML/CSS, jQuery, Jira, Git, LaTeX

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## PROJECTS

2018 - 2019

### COMMUNICATION ASSISTANCE FOR THE AUDIBLY IMPAIRED

#### ***Final Year Project***

- Trained a model for American Sign Language to translate gestures to audio for audibly impaired persons to communicate using Python3, OpenCV, Deep Learning (fast.ai, PyTorch) and Raspberry Pi 3 B+
- Created a Python application to send video via Raspberry Pi to the model running on a server and respond with the identified gesture. An audio is then output via the attached speaker, allowing the deaf person to communicate

2020

### FITZ

#### ***Full Stack Developer (VandyHacks 2020)***

- Developed a React Native application for finding and hiring personal sports trainers in a desired location

2020

### PROJECTANT

#### ***WordPress Developer (Freelance)***

- Developed a responsive landing and sign-up page for ProjectANT.io utilizing WordPress and Oxygen visual editor

2020

### RHYTHM TYPER

#### ***Web Video Game Developer (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.

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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

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## PERSONAL

- Deep Learning in Python Course - DataCamp certification
- Convolutional Neural Networks - DataCamp certification
- Hobbies: Martial Arts, Dance, Video Games, Anime, Video Editing, Swimming, Running, Movies and YouTube