HASAN IQBAL

MICHIGAN, USA

+1 313 398 1916 ---- hasan.iqbal1292@gmail.com,

Skills

- Image Processing, Deep Learning, Computer Vision, Virtual Reality (VR)
- Languages: Python, C#, C++, Java, JS, SQL, NoSQL
- OpenCV, OpenGL, Unity 3D, Pytorch/TensorFlow

Experience

Adjunct Professor   2022-05-06 to 2022-08-07
Wayne State State University

- Taught advanced level java course at Wayne State University
- Course ID CSC 3020 College of Engineering, Computer Science Department

Image Algorithm Engineer   2019-03-8 to 2021-06-15
Mengbaby Information Technology (Shanghai) co. ltd.

- Worked on various challenging Computer Vision projects like counterfeit detection, OCR, Object detection etc.
- Worked on OpenCV, Python for image processing.
- Used Siamese triplet loss deep learning model for counterfeit detection.
- Used Tesseract OCR and other OCR papers from CVPR for characters recognition part in the project.
- Worked with Resnet and InceptionNet. Implemented in Tensorflow, Keras and Pytorch.
- Used YoloV3 for object detection.
- Implemented Flask servers for deep learning models on the servers.

Intern   2018-11-01 to 2019-02-09
Hainan PPK Information Technology Ltd., Shanghai, China

- Worked on Image processing, Opencv and Python.
- Worked on Resnet, GoogleNet and did their implementation in Tensorflow, Keras and Pytorch.

Teaching Assistant   2017-09-12 to 2018-01-30
Tsinghua University, Haidian, Beijing

- Worked as teaching assistant in the class "Technical English writing for academic purposes".

Software Developer   2015-07-01 to 2016-06-30
Pacsquare Technologies Ltd., Islamabad, Pakistan

- Worked on Forex related desktop application.
- Application was server/client based on real time data feed of forex quotes. .
- Testing, debugging and provided solutions of problems in charts and graphs.
- MT4 and DDF feed incorporation in the system.
- Worked on C# for forex application.

Intern   2014-06-16 to 2014-08-11
Techlogix, Islamabad, Pakistan

- Worked on node.js for back-end, C# for application development and java for manipulation of Flexcube.
- Learnt about database implemented in the Flexcube

Intern   2013-07-16 to 2013-09-09
Nadra PHQ, Islamabad, Pakistan
- Worked with Technical Support Team of Nadra.
- Learnt about the database structures of Nadra and their data handling tools.

Education

Wayne State University, Detroit, Michigan, USA
Doctorate of Computer Science ▪ Sep 2021 till now
- CGPA: 4.0 / 4.0 till now
- Awarded Graduate teaching assistantship (GTA) by Department of Computer Science, Wayne State University

Tsinghua University (清华大学), Beijing, China
Masters of Advanced Computing ▪ July 2018
- CGPA: 3.8 / 4.0
- Awarded Chinese scholarship council (CSC) scholarship.
- Research student at Human Computer Interaction Lab, Tsinghua University.
- Worked on Virtual Reality (VR) with HTC Vive using unity 3D (C# scripts) for Computer Graphics and SteamVR (Thesis).

National University of Sciences and Technology (NUST), Islamabad, Pakistan
Bachelors of Software Engineering ▪ June 2015
- CGPA: 3.75 / 4.0
- Selected as Google Student Ambassador, 1st Batch of Pakistan 2013.
- Rector's Gold Medal for best Final Year Project.
- Gold Medal for 'Special Performance'.
- Represented Team Pakistan as Google Student Ambassador in Search Summit with Google 2013 Yogyakarta, Indonesia.

Publications:

- Yan, Y., Yu, C., Ma, X., Huang, S., Iqbal, H., & Shi, Y. (2018, April). Eyes-Free Target Acquisition in Interaction Space around the Body for Virtual Reality. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (p. 42). ACM.
- Iqbal, H., Latif, S., Yan, Y., Yu, C., & Shi, Y. (2021). Reducing Arm Fatigue in Virtual Reality by Introducing 3D-Spatial Offset. *IEEE Access*, 9, 64085-64104.

Google Scholar ID:

https://scholar.google.com/citations?user=jjVY94MAAAAJ&hl=en&oi=sra

Linkedin ID:

https://www.linkedin.com/in/hasaniqbal1292