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# SHAFKAT KHAN SIAM

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## RESEARCH INTEREST

Deep Neural Network, Self-supervised process, Image Processing, Machine Learning

## EMPLOYMENT

| **Graduate Research Assistant** | **Computer Vision Lab, Chosun University** | **April 2021 - February 2023** |
|---|---|---|

- Developed and implemented advanced face detection and recognition algorithms for various projects.
- Designed and developed code for self-supervised image denoising techniques.
- Created neural network models for image-to-image conversion.
- Troubleshooting and refining recent work on segmentation-based deep learning methods and results for different methods for the co-authored papers.

| **Project Engineer** | **Robi Axiata Ltd.** | **October 2020 - November 2020** |
|---|---|---|

- Enhanced network performance by increasing the allocated bandwidth for base transceivers.
- Adhering to regulations while creating or removing beam formations through zonal controllers.

| **System Engineer** | **Grameenphone Ltd.** | **July 2019 - June 2020** |
|---|---|---|

- Conducted 24/7 alarm surveillance of network elements and systems.
- Escalated, following up, and reporting alarms until resolved.
- Performed stability checks based on system benchmark KPIs.
- Provided terminal-based support during planned activity execution in the network and ensuring successful completion.
- Enhanced the experience for content providers.

## EDUCATION

| **Gwangju, South Korea** | **Chosun University** | **March 2021 – February 2023** |
|---|---|---|

- **M.Sc.** in Computer Engineering (CE)
- **Thesis title:** Aggregated multiscale self-supervised denoising
- **Thesis code:** https://github.com/khan022/aggregated-multiscale-self-supervised-denoising
- **Thesis Domain:** Image Processing & Machine Learning
- **CGPA:** 4.06 out of 4.50 (90.2%)
- **Scholarship:** Merit order scholarship throughout 2 years' study of M.Sc.

| **Khulna, Bangladesh** | **Khulna University of Engineering & Technology (KUET)** | **December 2014 – March 2019** |
|---|---|---|

- **BSc.** in Electronics and Communication Engineering (ECE)
- **Thesis title:** Classification of Chest X-Ray images to detect pneumonia using Deep Residual Network
- **Thesis Domain:** Image Processing & Machine Learning
- **CGPA:** 3.01 out of 4.00 (64.72%)

## PUBLICATIONS

### Journal Articles

- Masud An Nur Fahim, Nazmus Saqib, **Shafkat Khan Siam**, Ho Yub Jung, *Rethinking Gradient Weight's Influence over Saliency Map Estimation*, MDPI, Sensors, 22 (17), 6516, 2022.
  **DOI:** 10.3390/s22176516
- Masud An Nur Fahim, Nazmus Saqib, **Shafkat Khan Siam**, Ho Yub Jung, *Denoising Single Images by Feature Ensemble Revisited*, MDPI, Sensors, 22 (18), 7080, 2022.
  **DOI:** 10.3390/s22187080

## LANGUAGES AND TECHNOLOGIES

- **Programming Languages:** Python, C, C++, MATLAB
- **Machine Learning Tools:** Tensorflow, Keras, PyTorch, scikit-learn
- **Framework:** Arduino
- **SCB:** Raspberry Pi
- **PCB/Circuit design:** Proteus

## STANDARDIZED TEST SCORES

- **International English Language Testing System (IELTS):** 26-Oct-2019

| Overall | Listening | Reading | Writing | Speaking |
|---------|-----------|---------|---------|----------|
| 7.5 | 8.5 | 8.5 | 6.5 | 7.0 |

- **Graduate Record Examinations (GRE): 12-0ct-2020**

| Quantitative Reasoning | Verbal Reasoning | Analytical Writing |
|------------------------|------------------|--------------------|
| 162 | 147 | 3.5 |

## VOLUNTEERING ACTIVITIES

- **Committee Member**, Manipulators of Electrons Club (Nov 2017 - Mar 2019)
- **Co-founder**, Innovation and Research Association for Students (IRAS) - KUET, (Jul 2018 - Mar 2019)
- **Organizer:** Technival 2019 (nationwide technical fest)

## REFERENCES

**Dr. Ho Yub Jung**
- **Assistant Professor**, Computer Engineering, Chosun University
- hoyub@chosun.ac.kr

**Dr. Muhammad Yeasir Arafat**
- **Assistant Professor**, Computer Engineering, Chosun University
- myarafat@chosun.ac.kr

**Dr. Muhammad Usman**
- **Assistant Professor**, Computer Engineering, Chosun University
- usman@chosun.ac.kr