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Education

Texas Tech University

Lubbock, Texas

PHD IN COMPUTER SCIENCE

2020 Spring - present

- CGPA: 3.86 out of 4
- · Advisor: Dr. Abdul Serwadda
- · Concentration in Cyber Security

BRAC University Dhaka, Bangladesh

MASTERS OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

- CGPA: 3.32 out of 4
- Thesis Title: IoT in Smart-homes and Smart-cities using FOG, NDN and Trust Management System

BRAC University Dhaka, Bangladesh

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

- CGPA: 3.12 out of 4
- Thesis Title: Fog based service oriented IoT infrastructure

Publication

Deep Neural Exposure: You Can Run, But Not Hide Your Neural Network **Architecture!**

Brussels, Belgium

IH&MMSec 21: Proceedings of the 2021 ACM Workshop on Information Hiding and Multimedia Security

2021

2019

- · S. E. Arefin and A. Serwadda
- ACM, DOI: https://doi.org/10.1145/3437880.3460415

Agent Based Fog Architecture using NDN and Trust Management for IoT

Kerala, India

IEEE TENCON

- S. E. Arefin, T. Ashrafi Heya and A. Chakrabarty
- IEEE, DOI: 10.1109/TENCON.2019.8929709

Real-life Implementation of Internet of Robotic Things Using 5 DoF **Heterogeneous Robotic Arm**

Kitakyushu, Japan

2018 JOINT 7TH INTERNATIONAL CONFERENCE ON INFORMATICS, ELECTRONICS & VISION (ICIEV) AND 2018 2ND

INTERNATIONAL CONFERENCE ON IMAGING, VISION & PATTERN RECOGNITION (ICIVPR)

2018

- S. E. Arefin, T. Ashrafi Heya and J. Uddin
- IEEE, DOI: 10.1109/ICIEV.2018.8641019

Service Based FOG Computing Model for IoT

San Jose, CA

IEEE 3RD INTERNATIONAL CONFERENCE ON COLLABORATION AND INTERNET COMPUTING (CIC)

2017

- T. H. Ashrafi, M. A. Hossain, S. E. Arefin, K. D. J. Das and A. Chakrabarty
- IEEE DOI: 10.1109/CIC.2017.00031 pp. 163-172.

A Novel Extended Cloud Based Approach for Internet of Things

Studies in Big Data book series (SBD, volume 39), Springer

MISHRA B., DAS H., DEHURI S., JAGADEV A. (EDS) CLOUD COMPUTING FOR OPTIMIZATION: FOUNDATIONS, APPLICATIONS, AND CHALLENGES. STUDIES IN BIG DATA, VOL 39.

2018

- T. H. Ashrafi, M. A. Hossain, S. E. Arefin, K. D. J. Das and A. Chakrabarty
- Springer, DOI: https://doi.org/10.1007/978-3-319-73676-1_12

IoT Infrastructure: Fog Computing Surpasses Cloud Computing

Springer, Singapore

Hu YC., Tiwari S., Mishra K., Trivedi M. (eds) Intelligent Communication and Computational

2017

TECHNOLOGIES. LECTURE NOTES IN NETWORKS AND SYSTEMS, VOL 19.

- T. H. Ashrafi, M. A. Hossain, S. E. Arefin, K. D. J. Das and A. Chakrabarty
- Springer, DOI: https://doi.org/10.1007/978-981-10-5523-2_5

Churchill College, Cambridge, UK

SECOND INTERNATIONAL CONFERENCE ON INTERNET OF THINGS AND CLOUD COMPUTING (ICC)

2016

- T. H. Ashrafi, S. E. Arefin, K. D. J. Das, M. A. Hossain and A. Chakrabarty
- ACM DOI 10.1145/3018896.3036365

Image Processing Based Indoor Localization System for Assisting Visually Impaired People

Wuhan, China

UBIQUITOUS POSITIONING, INDOOR NAVIGATION AND LOCATION-BASED SERVICES (UPINLBS)

2018

2017

2017

• T. A. Heya, S. E. Arefin, A. Chakrabarty and M. Alam

Fog Based Distributed IoT Infrastructure

• IEEE DOI: 10.1109/UPINLBS.2018.8559936

Indoor localization system for assisting visually impaired people

Cox's Bazar, Bangladesh

International Conference on Electrical, Computer and Communication Engineering (ECCE)

Comparative analysis of computation models for IoT: Distributed fog vs.

- M. M. Alam, S. E. Arefin, M. A. Alim, S. I. Adib and M. A. Rahman
- IEEE, DOI: 10.1109/ECACE.2017.7912927

Dhaka, Bangladesh

4TH INTERNATIONAL CONFERENCE ON ADVANCES IN ELECTRICAL ENGINEERING (ICAEE)

• T. A. Heya, S. E. Arefin, M. A. Hossain and A. Chakrabarty

I.A. neya, S. E. Afellif, M. A. nossalif and A. Chakfabart
 IEEE, pp. 760-765. DOI: 10.1109/ICAEE.2017.8255456

Driaka, barigiaaesii

Experience _

conventional cloud

Texas Tech University GPTI Teaching Assistant

Lubbock, Texas Aug. 2020 - Present

• CS-1412: Programming Principles II: C (Spring 2021 and Spring 2022)

- CS-2413: Data Structures (Fall 2021)
- CS-2350: Computer Organization and Assembly Language Programming (Summer 2021)
- CS-4392: Computer Networks (Fall 2020)
- CS-4366 (Fall 2020)

Dashroad Remote job - Dubai, UAE

BACKEND ENGINEER

Remote Job - Dubai, UAE Feb. 2019 - Exp. May. 2019

- MERN stack based backend development
- Machine learning api development using Azure ML Studio (Price prediction system for Tesla Cars)

Sweet iTech SOFTWARE ENGINEER

Full time job - Dhaka, Bangladesh

Feb. 2018 - Aug. 2018

- Spring Boot backend development
- Android app development

SAYED ERFAN AREFIN · CURRICULUM VITAE

Careershub Limited

Full time job - Dhaka, Bangladesh | Head office: Melbourne, Australia

Nov. 2017 - Jan. 2018

WEB DEVELOPER

- Developed and maintained websites
- careershubbangladesh.com.au

Oluha Group Remote job - Virginia, US

APP DEVELOPER Jul. 2017 - Sep. 2017

• Developed Android based social media app which used emotion detection over the cloud

Anontech Part time job - Dhaka, Bangladesh

APP DEVELOPER

• Developed Android & Windows apps.

Jul. 2016 - Aug. 2016

Certifications & Awards _____

| 2021 | International Teaching Assistant (ITA) Approved, Texas Tech University | Lubbock, Texas |
|------|--|----------------|
| 2018 | Scholarship , Linux Foundation conference KubeCon + CloudNativeCon | CPH, Denmark |
| 2019 | Scholarship, Linux Foundation conference Linux Security Summit | San Diago, USA |
| 2017 | Startup Funding, Microsoft Bizspark Became a part of Bizspark on be half of Bulb Inc | Dhaka, BD |
| 2014 | Microsoft Technology Associate (MTA) , Software Development Fundamentals, <i>Microsoft</i> Certification number: F144-9204 | Dhaka, BD |
| | Provide C. C. D. J. L. | |
| 2015 | Runners Up $_{,}$ Software Development category at AUST Engenius, Ahsanullah University of Science & Technology | Dhaka, BD |

Research Interests & Skills _____

RESEARCH INTERESTS

- Cyber Security
- Internet of Things (IoT)
- Robotics

ACADEMIC AND RESEARCH SKILLS

- Time series analysis
- Convolutional Neural Networks and classifications
- Anaconda and python ML packages
- · LaTex tools (MikTex, Texmaker), Overleaf
- Micro-controller programming with C and C++

SOFTWARE DEVELOPMENT SKILLS

- Android development
- Vuejs frontend web development
- Spring Boot backend development
- CI/CD tools: Docker, Gitlab CI, Github, Circle CI, heroku
- Cloud environments: Microsoft Azure, Digital Ocean
- Databases: MySQL, Postgres, Mongo DB
- 3rd party services: Firebase, Google APIs etc