# Abdullah Al Mamun

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## Educations

- **Florida International University (FIU)** — Miami, FL
  *PhD in Computer Science; GPA: 3.53* — *Aug. 2018 – Dec. 2021*
- **King Fahd University of Petroleum & Minerals (KFUPM)** — KSA
  *MS in Computer Engineering; CGPA: 3.53* — *Aug. 2014 – Dec. 2016*
- **Dhaka University of Engineering and Technology (DUET)** — Dhaka, Bangladesh
  *BS in Computer Science and Engineering; CGPA: 3.49* — *2007 – 2012*

## Skills

- **Languages**: Python, C++, SQL **Front End**: jQuery, PHP, HTML, CSS, JScript, GitHub
- **Back End**: TensorFlow, Keras, PyTorch, Scikit-learn, AWS, Google Cloud ML Engine, GPU, Spark, Hadoop, NoSQL, Linux, Flask, MATLAB, MySQL

## Experiences

- **Florida International University** — Miami, FL
  *Graduate Assistant* — *Aug 2018 - Present*
  - **Developed a drug recommendation system using Deep Learning**: Python, TensorFlow, Keras, GPU, Scikit-learn
  - **Taught Object Oriented Programming (C++, Python), HCI to UG students**:
- **Research Institute, KFUPM** — KSA
  *Freelance Software Engineer* — *Jan 2015 - Dec 2016*
  - **Developed a cloud based online quiz platform for 5000+ users**: PHP, HTML, CSS, NoSQL, AWS
- **Softwindtech** — Dhaka, Bangladesh
  *Software Engineer* — *Jan 2013 – July. 2014*
  - **Developed a web portal for a national bank in Bangladesh that has 4M users**: PHP, HTML, CSS, NoSQL, AWS

## Certifications

- **Google**: End-to-End Machine Learning with TensorFlow on Google Cloud Platform (Issued: March, 2020)
- **University of Illinois Urbana-Champaign**: Cloud Computing Concepts: Part 1 & 2 (Issued: April 2015)

## Previous Projects

- **Developed Deep Learning based sleep stages classifier**: Python, MLP, TensorFlow, GPU
- **Implemented LSTM based sentiment analysis tool**: LSTM, Python, TensorFlow, GPU
- **Designed and Developed Operating System File System**: C++, Linux
- **Developed semi-supervised real-time tweet spam filter**: Spark Streaming, Hadoop, Linux, Map-Reduce

## Awards Received

- **Champion**: 2nd GCC Robotics Challenge at Qatar, 2017. Organized by IEEE and IET
- **Internal Research Award**: for outstanding research contribution from Qatar University, 2018
- **Deanship Award**: (Full-fund for MS) at KFUPM, 2014 - 2017
- **ACM Membership**: ACM complimentary membership for 1 year (Membership ID# 4761120)
- **Conference Travel Fellowships**:
  - 10th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics, NY, USA, 2019
  - IEEE International Conference on Bioinformatics and Biomedicine, San Diego, USA, 2019
  - IEEE International Conference of Electrical and Electronic Technologies for Automotive, Milan, Italy, 2018
  - 13th International Conference on Digital Information Management (ICDIM), Berlin, Germany, 2018

## Selected Publications

- **A. Al Mamun**, M. Sobhan, R. B. Tanvir, C. J. Dimitroff and A. M. Mondal,"Deep Learning to Discover Cancer Glycome Genes Signifying the Origins of Cancer," 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Seoul, Korea (South), 2020, pp. 2425-2431, doi: 10.1109/BIBM49941.2020.9313450.
- **A. A. Mamun**, W. Duan and A. M. Mondal, "Pan-cancer Feature Selection and Classification Reveals Important Long Non-coding RNAs," 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Seoul, Korea (South), 2020, pp. 2417-2424, doi: 10.1109/BIBM49941.2020.9313332.
- **A. Al Mamun** and A. M. Mondal, "Feature Selection and Classification Reveal Key lncRNAs for Multiple Cancers," 2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), San Diego, CA, USA, 2019, pp. 2825-2831, doi: 10.1109/BIBM47256.2019.8983413.
- **Al Mamun, Abdullah**, Mohammad Tariq Nasir, and Ahmad Khayyat. "Embedded System for Motion Control of an Omnidirectional Mobile Robot." IEEE Access, vol. 6, pp. 6722-6739, Jan 2018. (Q1, IF 4.09)
- M. H. Al-Meer and **Al Mamun, Abdullah** "Deep Learning in Classifying Sleep Stages," 2018 Thirteenth International Conference on Digital Information Management (ICDIM), Berlin, Germany, 2018, pp. 12-17.
- AlSaad, Rawan, Somaya Al-Máadeed, **Abdullah Al Mamun**, and Sabri Boughorbel. "A Deep Learning Based Automatic Severity Detector for Diabetic Retinopathy." In International Conference on Machine Learning and Data Mining in Pattern Recognition, pp. 64-76. Springer, Cham, 2018.
- **Al Mamun, Abdullah** Fahim Djatmiko, and Mridul Kanti Das. "Binary multi-objective PSO and GA for adding new features into an existing product line." In 2016 19th International Conference on Computer and Information Technology (ICCIT), pp. 581-585. IEEE, 2016.