

# Abdullah Al Mamun

mmamu009@fiu.edu, aamcse@gmail.com  
+1-786-451-2642

Github.com/pwaAbdullah  
Linkedin.com/in/newAbdullah  
https://pwaAbdullah.github.io

## EDUCATIONS

---

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

## SKILLS

---

- **Languages:** Python, C++, R, MATLAB, SQL **Front End:** Angular, React, Vue
- **Back End:** TensorFlow, Keras, PyTorch, Scikit-learn, AWS, Google Cloud ML Engine, GPU, Spark, Hadoop, NoSQL, Unix, Linux, Flask, MySQL

## EXPERIENCES

---

- **Machine Learning Engineer** Miami, FL  
*Florida International University* Aug 2018 - Present
  - **Developed a drug recommendation system using Deep Learning as a graduate research assistant:** Python, TensorFlow, Keras, GPU, Scikit-learn
  - **Developed deep learning based feature selection framework:** Python, TensorFlow, GPU, Scikit-learn
- **Software Engineer (Part-time)** Saudi Arabia  
*King Fahd University of Petroleum & Minerals* Jan 2015 - Dec 2016
  - **Developed and maintain a cloud based online education platform for 5K users:** PHP, HTML, CSS, NoSQL, AWS
- **Software Engineer** Bangladesh  
*Softwindtech Ltd.* Jan 2013 – July. 2014
  - **Design and developed 10+ web applications:** 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)

## OTHER 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

- **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.