SARWAN ALI

House # $t - 1848$ sarhad street #2 gulberg #3 Peshawar, Pakistan 25000
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$16030030@lums.edu.pk$
Date of Birth: July 11, 1993

EDUCATION

Lahore University of Management Sciences   August 2016 - June 2018
MS (Computer Science)

University of Engineering and technology (UET) Peshawar   August 2012 - June 2016
BSCS (Computer Science)

CERTIFICATIONS/TRAININGS

- Trainings for developing National Student Satellite (PNSS-1) mission at Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)

- Android Certification from UET Peshawar

Experience

- LUMS
  Research Assistant - Computer Science - Data Science   July 2018 - Present
  I am Working as a Research Assistant in Big Data analytics Lab at LUMS

- Teaching Assistant   January 2019 - May 2019
  TA For "CS 5312 Big Data Analytics" course

- Teaching Assistant   August 2018 - January 2019
  TA For "CS 510 Design & Analysis of Algorithm" course

- Teaching Assistant   August 2017 - January 2018
  TA For "CS 210 Discrete Mathematics" course

- Web Developer   July 2017 - September 2017
  Responsible for developing website for High Performance Computing in LUMS. Website can be assessed on this link https://hpc.lums.edu.pk/

- UET Peshawar   June 2016 - July 2016
  Lecturer
  Responsible for Coaching classes on Android in UET Peshawar.

- Freelancing Software Developer   January 2014 - Present
  I have developed several websites and android applications as part of freelancing projects

RESEARCH AND PUBLICATIONS

- Short Term Load Forecasting Using Smart Meter Data (Accepted in e-Energy 2019 Conference)
  https://dl.acm.org/citation.cfm?id=3330173

- Hour-Ahead Load Forecasting Using Smart-Meter Data (F-SMD) (To be submitted in IEEE Transactions on Smart Grid 2019)
  https://drive.google.com/file/d/1aNEJXw3Zq7RQI_N-7JvyQLi02jvcrLjo/view?usp=sharing

- Augmenting Similarity Triplets for Enhanced Analytics and Kernel Evaluation (To be submitted in AAAI 2019 Conference)
  https://drive.google.com/file/d/1PQeIRjd6hGm5jcx0kZwgEs2iy58z7Me1/view?usp=sharing

- Predicting Attribute of Nodes in a Network (Masters Thesis "To be submitted in ACM Transactions on Intelligent Systems and Technology 2019")
  https://drive.google.com/file/d/1rQnJjb8_37PPscpsXE0L_DTMdv-Ue7uj/view?usp=sharing

- Combinatorial Trace Method for Immunization of Large Networks (Submitted in Journal of Information Sciences for Peer Reviews)
  https://drive.google.com/file/d/19bvNm3yok6DqFNmBHN7eEjV9ze08Aqc8/view?usp=sharing

- Fair Allocation Based Soft Load Shedding (To be submitted in ACM Transactions on Intelligent Systems and Technology 2019)
  https://drive.google.com/file/d/1QsJ5lUVD55eu8a7it3uScQWivbn8_IIM/view?usp=sharing

- Cache Replacement Algorithm (Undergraduate Thesis)
  https://drive.google.com/file/d/1usVQ8k7FC4c-1M7wH9cQfvVyU8JZ02Ho/view?usp=sharing

- Graph2vec based technique for Graph Classification (Currently working on it)

PROJECTS

- Detecting Overlapping Clusters In Attributed Graph (Big Data project during Masters Studies)

- Soft Load Shedding an approach to manage electricity demand and generation gap (Project During Masters Studies)

- Search Engine for Source Code (Software reuse project during Masters Studies)

- Tone Mapping Algorithms in High dynamic Range imaging and their comparisons (Image compression project during Masters Studies)

ADDITIONAL SKILLS AND EXPERIENCE

- <u>I.T SKILLS</u>: As an I.T professional, I have good command in all fields of computer science including programming, database, networking, computer architecture, operating system, Algorithms. Got good programming skills in Android and Asp.net (Web applications) environment.

- <u>ENTREPRENEURSHIP</u>: Entrepreneurship skills developed throughout my life. I am working on multiple startups which will be launched in the later part of this year.

- <u>ORGANIZATION AND PLANNING SKILLS</u>: Excellent organization and planning skills developed throughout my career but particularly in role as a lecturer for android classes in UET Peshawar. Ability to prioritize high level workload within strict deadlines

- <u>COMMUNICATION SKILLS</u>: Effective communicator in a variety of 1:1 contexts, excellent presentation skills, able to organize information, identify key points and explain concepts clearly to colleagues both verbally and in writing

- <u>LANGUAGES</u>: Languages Fluent in English and Urdu in reading, writing, speaking and listening mode, but fluency in Speaking in Punjabi and Pashto

AFFILIATIONS

- LUMS

- UET Peshawar

HONOURS AND AWARDS

- Awarded NOP Scholarship to study full time MS computer science in LUMS

- Represented Peshawar in Seed star world startup competition in Karachi

- Work as Android development lecturer in UET Peshawar

- Won 1st prize in developing android application in UET Peshawar event

- Top 5 finalist for developing mobile application in Jumpstart Pakistan startup

- Top 10 Finalist for developing mobile application in 'Seed star world' event

- 2nd in Speed programming skills in UET Peshawar Event

- Top 5 finalist in developing business model for mobile application in Tie Islamabad, Peshawar chapter

- Worked with rescue 1122 to develop emergency rescue application to give first aid to people in minimum amount of time

- Represented Peshawar in Seed star world startup competition in Karachi

INTERESTS

- Data Analytics

- Software Development

- Designing

- Reading

EXTRA CURRICULAR

- Playing Cricket

- Playing Badminton

- Swimming

- Listening Music

- Reading Books