252-327-3168 umairwork50@gmail.com
Santa Clara, CA
MOHAMMAD UMAIR
linkedin.com/in/umairwork50
github.com/umairspn

EDUCATION

Master's in Computer Science **– University of Maryland Baltimore County** **Aug 2019 – Aug 2021**

- Graduate Coursework includes Machine Learning, Natural Language Processing, Artificial Intelligence, Design and Analysis of Algorithms, and Advanced Operating Systems

Bachelor's in Computer Science **– Bahria University** **Jan 2014 – Jan 2018**

- Graduated in top 5% of the class

WORK EXPERIENCE

Research Assistant **– University of Maryland Baltimore County** **June 2020 – Aug 2021**

- Developed a novel approach that incorporates general knowledge into language models including Google BERT, improving accuracy by 10% on 3 NLP benchmarks. Submitted research to AAAI-2022.

Software Engineer **– SAFARIFONE Inc.** **June 2018 – July 2019**

- Developed a log management system that extracts and assigns the relevant logs to the respective teams using a recommender system, significantly reducing the processing time of resolving a client's issue.

Application Developer **– CodeMax** **May 2016 – Aug 2017**

- Designed and developed platform-optimized mobile games with more than 1 million downloads on Play Store.

Teaching Assistant **– University of Maryland Baltimore County** **Aug 2019 – May 2020**

- Assisted students with C++ programming projects for "Data Structures and Algorithms" course.

KEY PROJECTS

Deep Siamese Neural Networks **– Machine Learning Course Project 2020**

- Built a Siamese neural network approach in PyTorch to align similar sentences taken from Wikipedia.
- Improved the performance of sentence embeddings by 5-10% on SENTEVAL toolkit with two unsupervised deep networks (BERT, XLNet)

Authorship Attribution **– Bachelor's Capstone 2018**

- Developed a model that extracts stylometry features from DAWN newspaper articles to classify the correct author with accuracy of ~85%. Submitted the algorithm to an online competition named PAN.

Augmented Reality **– Community Support Project 2017**

- Developed an AR application for android and iOS platforms that helps navigate wheelchair students through disability routes within the campus.

TECHNICAL SKILLS

- ***Languages*** Python, Java, C++, C#, JavaScript, SQL, HTML, CSS
- ***Tools*** Linux/Unix, Anaconda, Jupyter, Django, MySQL, Git, AWS, GCP
- ***Libraries*** PyTorch, TensorFlow, Pandas, Scikit-learn, NumPy, Vim, Spring
- ***Interests*** Software Development, Machine Learning, Algorithms, Problems Solving