Neamatullah Achekzai

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PROFESSIONAL OBJECTIVE

Results-driven, problem-solving computer science graduate student seeking to apply in-depth understanding of advance mathematical concepts and statistics in real world problems, with focus on making developed models secure and private, by securing a Data Science or Machine Learning or Artificial Intelligence intern position for summer 2022 in a collaborative team environment.

Education

Georgia State University - Atlanta, GA	**August 2021 – May 2023**
Master of Science in Computer Science	*GPA: 4.10/4.30*

BUITEMS - Quetta, Pakistan	**August 2015 – August 2019**
Bachelor of Science in Software Engineering	*GPA: 3.65/4.00*

Work Experience

Yaqubi Waroona Ltd - Kandahar, Afghanistan	**March 2021 – June 2021**

Software Engineer

•Developed and maintained inventory management which would track the records for the company of their daily transactions for their all products.
• The system was developed using the following tools:
    SQL was used for developing database.
    Python was used to develop the backend of the system.
    PyQT was used for GUI.

THOSE - Quetta, Pakistan	**January 2018 – March 2018**

Mobile Application Developer Intern

• Designed and developed the front end of an android application for the company project which was for finding the correct tutor for the student need.
• The front end was designed and developed using **Java**.

Projects

Securing The Model (Python, Keras, tensorflow,)
• Different neural network models were developed and trained using **Python, Keras** and **Tensorflow**.
• After developing and training the models the models were attacked using evasion and poisoning attack and **Adversarial Robustness Toolbox**.
• Then the models were defended using **Adversarial Robustness Toolbox**, **Federated Learning TensorFlow** and **PySyft.**

HealthyGrow (Python, Keras, Java)
• HealthyGrow an android application based on Artificial Intelligence which would capture images of plant leaves, identify diseases in the plant leaves and recommend the required medication.
• The user interface and mobile application was developed using **Java.**
• The artificial intelligence part of the application was developed with the combination of the following tools:
    TensorFlow and **Keras** for training the models.
    TensorflowLite for making the models executable on local device.
    Firebase was used as a database which would collect the data.
    Matplotlib was used for analyzing the data and comparing the results for different models.
• The objective of the application was to help farmers grow healthy corps.

Computational Complexity
• Computational Complexity was researched study project which outcome was to find out how we can use computational complexity in the area of Artificial Intelligence
• Especially with a focus on its subbranches such as Machine Learning and Natural Language Processing.

Skills and Interest

•**Skills:** Python (Numpy, Pandas, Scikit-learn, Matplotlib), Keras, TensorFlow, TensorFlowLite, Octave, ART Tool, Federated Learning TensorFlow, PySyft, PyQT, SQL, JAVA, Firebase, MS Excel, Microsoft Office, Adobe Photoshop, Mobile application development.
•**Interest:** Data Science, Data Analyst, Secure and Private Artificial Intelligence, Machine learning, Deep learning, Artificial Intelligence.