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RAMI ISMAEL

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Education

University of Texas at Dallas Richardson, TX
Bachelor of Science, Major in Computer Science Aug 2019 – Jun 2023 GPA: 3.75 / 4
Relevant Coursework: Introduction to Machine Learning, Discrete Mathematics 1 & 2, Linear Algebra, Calculus 1 & 2 &3, Probability & Statistics in Computer Science, Mechanical Physics, Data Structure & Algorithm Analysis, Computer Science 1 & 2, Chemistry 1 , Natural Language Processing, Computer Archeticture

Technical Skills

Programming Languages: C++, Python, Java, JavaScript, HTML5, CSS3, HTML, Typescript,
Framework: React.js, Django,
Skills: Object Oriented Programming, Algorithm Design, AWS, Deep Learning, classification, regression, **Tools:** Microsoft Office, Git, GitHub, Linux, Windows PowerShell, Goggle Drive, Web services, Unix **API/Library:** SciPy, Selenium, Beautiful Soup, PyGame, OpenCV, Seaborn, P5.js
Big Data & Machine Learning: scikit-learn, NumPy, pandas, Matplotlib, PyTorch, TensorFlow, Keras

Experience

Software Engineer Intern at Facebook Core Health Team Summer 2021-Aug 6 2021

- Build an full stack infrastructure tool that cluster user reported bugs. Then display key information for developer clear signal on impact to solve the bugs in the Family of Facebook apps.

Software Projects

K-group Algorithm on Health News in Twitter Fall 2020

- Computed the similarities between tweets using the Jaccard Distance metric the cluster.
- Clean over 58000 twitter data using Pandas from an excel sheet.

Independent Group Research Project Autonomous Driving Car Fall 2020

- Implemented autonomous driving from a Kaggle dataset to determine what 4 action to take got 86 % on test data.
- Developed a feedforward and backpropagation using gradient descent algorithm with NumPy.
- Designed and created an adjustable dense neural network library with Python in two days
- Collaborated in a team of four to research the tunning of optimal hyperparameter.

Natural Language Processing (NLP) Deep Learning Sentiment Analysis on IMBD Datasets Fall 2020

- Created sentiment analysis on 50,000 movies using TensorFlow classify people if they have a positive or negative review.

ACTIVITES

National Society of Black Engineer UTD Chapter Membership Chair Fall2020-2021

- Provide oral and written communicate on a weekly basis to National

Society of Black Engineer members to inform about them current opportunities profile NSBE.

- Engaged in active recruitment through event sourcing and networking in club of alumni and member reaching over 15 members.

HSU (Habesha Student Union) Secretary | Historian Fall 2020-2021

- Collected and prepared data on Google sheets to assessed average student engagement for organizational events club of 13 members.
- Prepared all members for coding competition were collaborated in a group of three member solve difficult algorithm, math, and data structure in a time constraint.

Artificial Intelligence Society

Officer (AI Mentor) Sptring 2022 –

I am an Officer of the Artificial Intelligence Society at UTD. Currently, I am responsible for being a mentor whose responsibility is to lead a team of 5 to implement a Machine Learning Model aligned with industry standards.

Research

- This was a IBM UTD SRC (Semiconducting Research Coporation) research sponsorship for Undergraduate Student paid $1000 a month in Effective In-field Testing and Diagnosis for Improvement of Functional Safety
- Implement a framework to minimize the accuracy drop by accelerator with different faults.
- Train, validation and test Normal and Computer Vision Deep Neural Network with PyTorch

- Promote the understand of the Artificial Intelligence System by skills, workshop and hackathon in club size greater than 200.
- Mentor 3 students through a semester long program work through a machine learning project from start to finish during Fall 2021

RESEARCH

- Effective In-field Testing and Diagnosis for Improvement of Functional Safety
    - Create a new framework for correcting errors in hardware during fall 2021
    - Under SRC(Semiconducting Research) UG
    - Receive 2000 in funding for each semester from IBM

SKILLS AND INTERESTS

Awards: Academic Success Scholarship, (Sep 2019- Aug 2020), NSBE APEX Scholar(Oct 2020)

Languages: Fluent in English