

ASHKAN ARABI

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EDUCATION

B.S. Computer Science, Mathematics Minor

the University of Texas at El Paso, El Paso, TX

Graduating May 2026

GPA: 3.91

Major GPA: 4.00

Honors & Activities: Dean's List since Fall '22, Houston Endowment Scholarship Recipient

Relevant coursework: Discrete Structures, Data Structures, Matrix Algebra, Computer Architecture

SKILLS

Programming / Markup Languages: Python, HTML/CSS, JavaScript, Java, Bash, LaTeX, C++

Frameworks & Software: Linux, TensorFlow, git, ReactJS, Conda, Singularity

Certifications: Coursera Neural Networks & Deep Learning - July 2023

EXPERIENCE

Temple University, Philadelphia, PA: Undergraduate Researcher

June – July 2023

- Conducted original research in team of 2 on using Wi-Fi CSI for hand gesture recognition on smartphones (LaTeX)
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios (TensorFlow, Python, Bash)
- Obtained >90% classification accuracy by using techniques such as LR Scheduling (TensorFlow, Keras)

UTEP, El Paso, TX: Computer Lab Assistant

January - May 2023

- Provided top-tier hardware & software tech support for 10+ students, staff, and faculty daily
- Maintained and updated hardware & software of 500+ computers through regular checkups

ACADEMIC & GROUP PROJECTS

Music Genre Classification

Spring 2023

Developed convolutional model to classify music genres based on their mel spectrogram

- Led team of 3 to meet project deadlines by dividing tasks based on skill level (Project Management)
- Designed, tested, and implemented CNN model for classification (TensorFlow, Numpy, Conda)

Blabber - a CLI Twitter replica

Fall 2022

Made CLI app that allows users to create an account, post, follow others, see a timeline, and delete their account

- Used scanners and writers to save, update, and delete user information and posts (Java)

PERSONAL PROJECTS

Advent of Code 2022

Summer 2023

Coded C++ solutions to 11 of 25 Advent of Code 2022 challenges.

- Used classes, queues, vectors, and streams to efficiently calculate result based on given inputs (C++)

Tweet topic detection

Summer 2023

Built model to detect one of 8 cyber-security topics mentioned in Tweets.

- Used Twitter pre-trained word embeddings and Bidirectional GRU to achieve 93% accuracy (Keras, NLP)

Tweet Sentiment Classification

Summer 2023

Built almost perfect model to classify positive and negative Tweets

- Achieved 99% accuracy using standard NLP preprocessing and along with Embedding and LSTM layers. (Keras)

LEADERSHIP

Association for Computing Machinery

Fall 2022 - Present

Multiple leadership roles, including publicity officer & treasurer

- Presented multiple interactive workshops attended by org members on topics such as NodeJS.

CS Student Council

One of the founders, and current member of the Council, helping students voice their concerns to the administration.