ASHKAN ARABI

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EDUCATION

Bachelor of Science in Computer Science, Mathematics Minor   Graduating May 2026
University of Texas at El Paso, El Paso, TX   GPA: 3.94
    Major GPA: 4.00

Relevant coursework: Object-Oriented Programming, Data Structures & Algorithms, Discrete Math, Matrix Algebra
Honors & Activities: Dean's List since Fall '22 , Houston Endowment Scholarship Recipient

SKILLS

Programming / Markup Languages: Python, Vala, HTML/CSS, C++, JavaScript, Java, C, LaTeX, Bash
Frameworks & Software: Linux, git, GTK, NumPy, Pandas, PyTorch, TensorFlow, React.JS, Conda, Microsoft Office
Certifications: Coursera Deep Learning Specialization - October 2023

EXPERIENCE

Upcoming Information Technology Intern: Texas Instruments, Dallas, TX   Summer 2024

Undergraduate Research Assistant: UTEP, El Paso, TX   January 2024 - present
- Contribute to the creation of speech-anomaly detection system by using generative AI to synthesize training datasets.
- Used **PyTorch** to reconstruct state-of-the-art networks proposed in papers.

Open-Source Contributor: GNOME Foundation, Remote   December 2023 - present
- Modernized GNOME Clocks' UI to add features such as full-screen timers and timer editing. (in progress)
- Fixed GNOME Clocks timers not progressing during system suspend by revising timer logic. (merged)
- Added functionality to world clock to show country and state in case two cities have the same name. (open)

Student Coordinator: AI4ALL, Remote   August 2023 - December 2023
- Mentored 16 students across 4 project groups in AI4ALL's Apply AI program.
- Helped students understand AI/ML concepts such as loss, backpropagation, CNNs, RNNs, transfer learning, etc.

Undergraduate Researcher: Temple University, Philadelphia, PA   June - July 2023
- Conducted **original research** ⬈ presented at ACM MOBIHOC about using Wi-Fi CSI for hand gesture recognition on smartphones.
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios using **Keras**.
- Obtained >90% classification accuracy by using techniques such as LR Scheduling.

PROJECTS

Hacktoberfest 2023   October 2023
- Contributed to three open-source repositories through bug-fixes and translations.
- Fixed subtitle cutoff bug in ASCII video player written in **C**. ⬈

Advent of Code 2022 - Annual Programming Challenge ⬈   August 2023
- Coded **C++** solutions to 12 of 25 challenge questions using backtracking, and graph traversal algorithms.
- Used classes, queues, vectors, and streams to efficiently calculate results based on given inputs.

To Do List Web App ⬈   Fall 2022
- Developed interactive to-do list web app with local save function through vanilla **HTML, CSS & JS**.
- Used Chrome's local storage API for saving user data.
- Followed typical **git/GitHub** version control workflow during implementation.

LEADERSHIP

President & Founder - Free and Open-Source Software Club at UTEP   December 2023 - Present
- Recruited team of 6 officers to host weekly workshops on git, Linux, Vim, open-source contributing, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, to help students make their first contributions.