

# ASHKAN ARABI

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## EDUCATION

**Bachelor of Science in Computer Science, Mathematics Minor**

University of Texas at El Paso, El Paso, TX

Graduating 05/26

GPA: 3.94

Major GPA: 4.00

Relevant coursework: Object-Oriented Programming, Data Structures & Algorithms, Operating Systems

## SKILLS

**Programming / Markup Languages:** Python, Vala, HTML/CSS, JavaScript, Java, Bash, Haskell, PHP, LaTeX, C

**Frameworks & Software:** Linux, git, GTK, NumPy, Pandas, PyTorch, TensorFlow, React.JS, Conda, Docker

**Certifications:** Coursera Deep Learning Specialization - October 2023



## EXPERIENCE

**Upcoming Information Technology Intern: Texas Instruments, Dallas, TX**

May - August 2024

**Undergraduate Research Assistant: UTEP, El Paso, TX**

January 2024 - present

- Contributed to creation of Autistic vs neurotypical speech classifier by testing ways to synthesize training data.
- Developed an **accent-changer model**  able to convert foreign English accents to native using **HuggingFace** pretrained models through their **Python** API.
- Implemented a **neural style-transfer model**  in **PyTorch** to learn PyTorch & explore usage for accent-changing.

**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)

## PROJECTS

**CLI Car Dealership**

April 2024

- Wrote an Object-Oriented car dealership software in **Java**, using inheritance, polymorphism, and interfaces.
- Used Git & GitHub features such as pull requests, merges, branches, rebasing, and reverting for team collaboration.
- Included operations to buy, restock, or add cars, monitor the revenue of each vehicle type, add / remove users, etc.

**Linux Timer** 

January 2024

- Developed a **Linux** timer application using **GTK & Vala**, using an event-driven architecture.
- Implemented functionalities for starting, pausing, resetting, and editing timers, using different GTK4 widgets & signals.

**Pong for MSP430** 

November 2023

- Designed and implemented a **C** Pong game for MSP430, with paddle movement, ball physics, and score tracking.
- Implemented interrupt-driven input handling for buttons, ensuring responsive and accurate gameplay interaction.
- Integrated buzzer audio feedback for game events such as ball-wall collisions and score updates.

**Advent of Code 2022 - Annual Programming Challenge** 

August 2023

- Coded **C++** solutions to 12 of 25 challenge questions using backtracking, and graph traversal algorithms, and more.
- Used classes, queues, vectors, and streams to efficiently calculate results based on given inputs.

**Tic Tac Toe Web App** 

Fall 2022

- Developed a tic-tac-toe game using **HTML, CSS, and JavaScript**, with a special focus on the visuals.
- Used JavaScript to manage game state, handle player moves, and determine game outcomes.
- Utilized CSS glow, shading, and animations for a Neumorphist UI style.

## 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.