

# ASHKAN ARABI

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## EDUCATION

**Master of Science in Artificial Intelligence**

December 2026

**Bachelor of Science in Computer Science**

December 2025

The University of Texas at El Paso

Major GPA: 4.00

Relevant coursework: Parallel Computing, Data Structures and Algorithms, Databases, Operating Systems

## EXPERIENCE

**Capital One: Software Engineering Intern**

June 2025 - present | McLean, VA

- Built alerting pipeline to detect card service failures & notify SREs, reducing incident-response time by **93%**.
- Migrated monitoring dashboards from **New Relic** and **Splunk** to **Observe**, reducing observability fragmentation.
- Created plugin to log card data transformations using **Java** and **JUnit** test-driven development, improving audit-readiness.

**UTEP: Undergraduate Research Assistant**

January 2025 - May 2025 | El Paso, TX

- Provisioned **Docker Swarm** distributed system to monitor hardware information of 8-node GPU cluster.
- Created and tested **Docker** and **AppTainer** containers for Nvidia DGX GPU clusters to facilitate reproducible HPC research.

**Texas Instruments: Information Technology Intern**

May 2024 - August 2024 | Dallas, TX

- Set up **robotic automation** infrastructure by deploying **Docker** containers on **Linux** servers, reducing costs by up to **50%**.
- Coordinated with **10+** stakeholders to configure **Oracle SQL** databases, **REST APIs**, and documentation.

**GNOME Foundation: Open-Source Contributor**

December 2023 - June 2024 | Remote

- Contributed to GNOME Clocks to refine timer UX; **used by 40+ million** to track time.
- Added full-screen timers and timer editing using **Vala** bindings and **GTK** components ([video demo](#)).

**UTEP: Undergraduate Research Assistant**

January 2024 - May 2024 | El Paso, TX

- Contributed to creation of Autistic vs neurotypical speech classifier by synthesizing training data.
- Built accent-changer model using **HuggingFace** pretrained AI/ML to change foreign English accents to native.
- Implemented neural style-transfer model in **PyTorch** to learn PyTorch & explore usage for accent-changing.
- Increased evaluation script performance by **144x** reimplementing KNN in PyTorch to utilize GPU.

**Temple University: Research Intern**

June 2023 - July 2023 | Philadelphia, PA

- Wrote first-author publication, **accepted into ACM MobiHoc '23**, about using Wi-Fi for hand gesture recognition on phones.
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios using **TensorFlow** with **90+% accuracy**.
- Selected to receive the Student Travel Grant Award of **\$1,200** out of hundreds of researchers to cover travel expenses.

## PROJECTS

**Ashdocs**

August 2025 - present

- Created Google Docs back-end clone in **Go**, capable of handling real-time edits by multiple users on the same document.

**hackerhunt.tech**

January 2025 - May 2025

- Democratized collaboration by making a platform for UTEP students to find collaborators for technical sideprojects.
- Used **Django + ChakraUI + Redux + React-Router + TypeScript** to create fast, state-of-the-art fullstack webapp.
- Minimized operating costs by self-hosting HTTPS website using **Nginx**, **Docker Compose**, and manual DNS setup.
- Raised **\$1000 in pre-seed funding** for first round of market validation advertisements, helping to get **30+ beta testers**.
- Created Bash **CI/CD** script to immediately deploy new releases.

**Newsbridge**

September 2024 - December 2024

- Increased access to diverse news by creating an AI RSS news translator & orator with **55 GitHub stars**.
- Implemented a microservice architecture using **Docker Compose**, for future load-balancing & increased capacity.
- Used **FastAPI** with **PostgreSQL** to fetch users' news sources and pass them to **LLM and TTS models** for summarization.
- Programmed interactive web UI using **Redux.JS** and **React.JS**.

## LEADERSHIP

**President & Founder - Free and Open Source Software Club at UTEP**

December 2023 - March 2025

- Scaled UTEP's first open-source-focused student organization from **0 to 264 members in 3 semesters**.
- Organized **47 workshops**, **personally presenting 20**, covering topics such as Git, Linux, Kubernetes, Vim, Emacs, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, attended by **12+ first-time contributors**.

## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, Go (Golang), Dart, Vala, HTML/CSS, Bash, Haskell,  $\LaTeX$ ,

**Libraries:** ReactJS, PyTorch, TensorFlow, NumPy, Pandas, Django, JUnit, FastAPI, Supabase, Firebase, Flask, Redux,

**Tools:** Linux, Git, GitHub, Docker, AWS, GCP, Kubernetes, New Relic, MongoDB(NoSQL), PostgreSQL, MySQL,