

# ASHKAN ARABI

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## EDUCATION

### Bachelor of Science in Computer Science

The University of Texas at El Paso

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

December 2025

Major GPA: 4.00

## 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 projected **61%**.
- Migrated monitoring dashboards from **New Relic** and **Splunk** to **Observe**, solving observability fragmentation.
- Extended **Java** data lineage plugin to support consumer spending data though test-driven development with **JUnit**.

### 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 Aptainer** 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 [↗](#) 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: Undergraduate 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

### hackerhunt.tech [↗](#)

Solo | January 2025 - present

- 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.

### Athlytix

Team of 4 | April 2025 - May 2025

- Created platform to connect MMA fighters seeking improvement with gyms/orgs seeking talent, using **Supabase** and **React**.
- Won the **Innovator Award** at STTE foundation's AI hackathon.

### Newsbridge [↗](#)

Team of 4 | 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, 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,