ASHKAN ARABI

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EDUCATION

Bachelor's of Science in Computer Science — Graduating 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 projected **61%**.
- Leveraged internal tools to monitor **Snowflake** data and spot performance anomalies.
- Migrated monitoring dashboards from **New Relic** and **Splunk** to **Observe**, solving observability fragmentation.
- Contributed to **Java** library tracking data lineage across card authorization system.

UTEP: Undergraduate Research Assistant — January 2025 - May 2025 | El Paso, TX
- Provisioned **Docker Swarm** to stream hardware information over the network from **8+** compute nodes into one dashboard.
- 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; **used by 40+ million** to track time.
- Added full-screen timers and timer editing using **Vala** bindings and **GTK** components (video demo ↗).
- Authored functionality for world clock to show country and state when two cities have the same name.

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** ↗ 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**.
- **1st place** for the best REU site final presentation.

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.
- Raised **$1000 in pre-seed funding** for first round of market validation advertisements, helping to get **30 users**.

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**.
- Enabled scalable extraction of statistics from training & fighting videos by using **Deno serverless functions**.
- 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(adv.), Java(adv.), JavaScript(adv.), TypeScript(adv.), Dart(med.), HTML/CSS(med.), Bash(med.), Haskell(med.),
Tools: Unix/Linux(adv.), Git(adv.), ReactJS(adv.), Django(med.), Supabase(med.), Firebase(med.), Flask(med.), GCP(novice),