ASHKAN ARABI

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EDUCATION

Bachelor of Science in Computer Science | Graduating December 2025
The University of Texas at El Paso | **Major GPA: 4.00**

EXPERIENCE

Capital One: Incoming Software Engineering Intern | June 2025 - August 2025 | McLean, VA

UTEP: Undergraduate Research Assistant | January 2025 - May 2025 | El Paso, TX
- 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 infrastructure for **robotic automation** for chip manufacturing by deploying **Docker** containers on **Linux** servers.
- Ensured system reliability through unit and integration testing with Insomnia before final deployment.
- Coordinated with **10+** stakeholders to configure **Oracle SQL** databases, **REST APIs**, and documentation.

GNOME Foundation: Open-Source Contributor | December 2023 - June 2024 | Remote
- Collaborated in development of GNOME Clocks; **used by thousands of Linux users** 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 speed by **144x** reimplementing KNN in PyTorch to utilize GPU.

PROJECTS

HackerHunt ↗ | 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** to create fast, state-of-the-art fullstack webapp.

Backlogz ↗ | Team of 4 | April 2025
- Boosted personal productivity by creating an app to generate 90-second podcasts based on users' backlog of interesting topics.
- Shipped app for **Android, iOS, and web** by using **React Native** and **Expo-Router** cross-platform frameworks.
- Won **3rd place** in SFHacks 2025's startup track.

Flirtify ↗ | Solo | December 2024 - January 2025
- Created an Android chat app that uses Google's **Gemini API** to add a flirting tone to all sent messages.
- Used **Flutter (Dart)** to create the mobile UI and **Firebase** to enable instant communication.

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 components to scale independently.
- 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**.

Vocabulary Courses ↗ | Team of 4 | September 2024
- Built full-stack web-app to help non-native speakers practice their pronunciation using spaced repetition.
- Conceived custom scheduling algorithm on **Node.JS** and **MongoDB** (noSQL) back-end to fetch the next practice word.

Bloomberg Tech Lab on Campus | Team of 2 | April 2024
- **One of 40** students selected to collaborate with Bloomberg engineers to build stock data processing application.
- Designed and implemented a queued messaging system using **RabbitMQ** for real-time data stream processing.

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 technical topics such as Git, Linux, Django, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, attended by **12+ first-time contributors**.

SKILLS

Languages: Python(adv.), Java(adv.), JavaScript(adv.), Dart(med.), Vala(med.), HTML/CSS(med.), Bash(med.), Haskell(med.),
Tools: Linux(adv.), Git(adv.), Docker(adv.), ReactJS(adv.), PyTorch(med.), TensorFlow(med.), Flask(med.), Node.JS(med.),