ASHKAN ARABI

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EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematics　　　　　　　　　　　Graduating 05/26
the University of Texas at El Paso, El Paso, TX　　　　　　　　　　　　　　　　　　　　　　　　GPA: 3.95
　　　Major GPA: 4.00

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

EXPERIENCE

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

Information Technology Intern: Texas Instruments, Dallas, TX　　　　　　　　May 2024 - August 2024
- Set up infrastructure for **fab transporter robots** by configuring **Docker** containers on Linux servers.
- Ensured system reliability through unit and integration testing with Insomnia.
- Coordinated with 10+ sysadmins & stakeholders to configure Oracle **SQL** databases and internal **APIs**.

Open-Source Contributor: GNOME Foundation, Remote　　　　　　　　　December 2023 - June 2024
- Collaborated with software engineers in development of GNOME Clocks; **used by thousands of Linux users** to track time.
- Added features such as full-screen timers and timer editing using **Vala** bindings and **GTK** components (link to video demo ↗).
- Fixed timers not progressing during system suspend by revising timer logic.
- Added functionality to world clock to show country and state when two cities have the same name.

Undergraduate Research Assistant: UTEP, El Paso, TX　　　　　　　　　　January 2024 - May 2024
- Contributed to creation of Autistic vs neurotypical speech classifier by using generative AI to synthesize training data.
- Developed an **accent-changer model** ↗ able to convert foreign English accents to native using HuggingFace pretrained AI/ML models through their **Python** API.
- Implemented a **neural style-transfer model** ↗ in **PyTorch** to learn PyTorch & explore usage for accent-changing.
- Reduced evaluation script runtime **from 24+ hours to 10 minutes** by rewriting loops as higher-dimension tensor operations.

Undergraduate Research Intern: Temple University, Philadelphia, PA　　　　　　　June - July 2023
- Wrote **first-author publication** ↗ presented at ACM MobiHoc about using Wi-Fi CSI for hand gesture recognition on phones.
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios using **Keras**.
- **1st place** for the best REU site final presentation.

PROJECTS

Vocowbulary Courses (HackWesTX 2024 submission) ↗　　　　　　　　　　　　September 2024
- Built full-stack web-app to help non-native speakers practice their pronunciation using spaced repetition. (team of 4, 24 hours)
- Used custom scheduling algorithm on a **Node.JS** and **MongoDB** back-end to fetch the next word to be practiced.
- Developed and tested **REST API interfaces** for team members to use in the front-end.

blog.ashkan.zone ↗　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　August 2024
- Created a blog to share useful programming and life tips as I learn them.
- Used **React.JS**, **TypeScript**, and **Tailwind CSS** to quickly bring my design to life, and **Gatsby** to add Markdown support.

PWAANG - a board game written in Haskell ↗　　　　　　　　　　　　　　　　　　　　May 2024
- Implemented a board game in **Haskell** (functional programming language) using monads, pattern matching, and recursion.

CLI Car Dealership ↗　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　April 2024
- Wrote an Object-Oriented car dealership software in **Java** following MVC architecture & OOP design patterns.
- Used Git & GitHub features such as pull requests, merges and branches to work in team of 3.

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 software development, and more.
- Hosted UTEP's **first open-source hackathon**, OpenHack, attended by more than **12 first-time contributors**.

Treasurer - Association for Computing Machinery at UTEP　　　　　　　August 2022 - January 2024
- Held the Sun City Hackathon; a three-day competition attended by **more than 20 students** to develop AI-powered apps.

SKILLS

Languages: Python(advanced), Java(advanced), JavaScript(advanced), TypeScript(advanced), SQL(mid), Vala(mid), HTML/CSS(mid), UML(mid), Bash shell scripting(mid), Haskell(mid), C++(novice), C(novice),
Tools: Unix/Linux(advanced), Git(advanced), PyTorch(mid), NumPy(mid), ReactJS(mid), Pandas(mid), Docker(mid), Redux(novice),