

Ashkan Arabi

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EDUCATION

Bachelor of Science, Computer Science

The University of Texas at El Paso

December 2025

GPA: 3.93

EXPERIENCE

Capital One: Software Engineering Intern

June 2025 - August 2025 | McLean, VA

- Built & deployed anomaly-detection pipeline for Capital One's card decisioning system, notifying SREs of malfunctioning ML models and reducing incident-response time **from 4+ hours to <15 mins**.
- Wrote highly optimized **Databricks SQL** & evaluated warehouse sizes to minimize pipeline cost & latency.
- Extended **Java**-based plugin to log custom **Apache Spark** data lineage events using a YAML specification.
- Applied **test-driven development** using **JUnit** and **Mockito** to ensure robust, maintainable code.

Texas Instruments: Information Technology Intern

May 2024 - August 2024 | Dallas, TX

- Reduced production line costs by ~**34%** by deploying **Docker** infrastructure for wafer transporter robots.
- Met with 10+ stakeholders to configure **Oracle SQL** databases, REST APIs, and documentation.

Temple University: Research Intern

June 2023 - July 2023 | Philadelphia, PA

- Published paper in **ACM MobiHoc** about using Wi-Fi CSI for hand gesture recognition on smartphones.
- Developed CNN model to classify 5 gestures in 6 scenarios using **TensorFlow** with **>90% accuracy**.

PROJECTS

Ashdocs (in progress) | Go(Golang), Websockets

- Created Google Docs clone in Go, able to handle multiple users' parallel real-time edits on documents.

hackerhunt.tech  | Python, Django, React, TypeScript, Nginx, Docker, AWS SES

- Democratized collaboration by making a platform for students to find collaborators for technical projects.
- Minimized costs by self-hosting HTTPS page using **Nginx**, **Certbot**, and manual DNS setup.
- Raised **\$1000 in pre-seed funding** for market validation advertisements, helping to get **30+ beta testers**.
- Created **Bash** CI/CD script to immediately deploy new releases.

Newsbridge (news.ashkan.zone)  | FastAPI, React, PostgreSQL, JavaScript, Docker, Ollama, Gemini API

- Increased access to diverse news by creating an AI RSS news translator & orator with **55 GitHub stars**.
- Ensured load-balancing & scaling capacity by using a **Docker Compose microservice architecture**.

TCP/IP file-transfer 

- Built custom client-server system to stream files over TCP sockets from Python's "socket" library.
- Enabled **parallel transfers** using forked child processes for each connection.

Home Server | Ubuntu Server, ZFS, Coreutils

- Built a personal **Ubuntu Server** to use for personal backups, self-hosting, file sharing, and GPU workloads.
- Configured **12TB ZFS RAID5 array** with redundancy for reliable data backup and archiving.

LEADERSHIP & ACTIVITIES

President & Founder - FOSS Club

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.

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, Go (Golang), Dart, Vala, HTML/CSS, Bash shell,

Libraries: ReactJS, PyTorch, TensorFlow, scikit-learn, NumPy, Django, JUnit, FastAPI, Flask, Spring Boot,

Tools: Linux, Git, GitHub, Docker, AWS, Google Cloud(GCP), MongoDB(NoSQL), PostgreSQL, MySQL, Kafka, Cursor,