Ashkan Arabi

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EDUCATION

Master of Science, Artificial Intelligence December 2026
Bachelor of Science, Computer Science December 2025
The University of Texas at El Paso GPA: 3.93
Relevant coursework: Data Structures and Algorithms, Operating Systems, Parallel Computing, Deep Learning, Machine Learning, Computer Vision, Databases, Object-Oriented Design, Matrix Algebra,

EXPERIENCE

Capital One: Software Engineering Intern June 2025 - August 2025

- Reduced incident-response time by 93% by building alerting pipeline for card service failure detection.
- Slashed team observability cost by >70%, using Python to move New Relic dashboards to Observe.
- Created Java logging plugin to add traceability to card data transformations.

Texas Instruments: Information Technology Intern May 2024 - August 2024

- 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.

GNOME Foundation: Open-Source Contributor December 2023 - June 2024

- Implemented timer editing and full-screen timers in GNOME Clocks, used by 40+ million to track time.
- Opened 3 PRs, reviewed code with maintainers, and merged my GTK + Vala components.

UTEP Vision and Learning Lab: Undergraduate Research Assistant January 2024 - May 2024

- Contributed to creation of autistic vs neurotypical speech classifier by creating synthetic training data.
- Built tone-changer by fine-tuning HuggingFace models to change normal tone to autistic.
- Implemented neural style-transfer model in PyTorch to explore usage for accent-changing.
- Increased evaluation script performance by 144x reimplementing KNN in PyTorch to utilize GPU.

Temple University: Research Intern June 2023 - July 2023

- 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

hackerhunt.tech | 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, Docker Compose, and manual DNS setup.
- Raised $1000 in pre-seed funding for market validation advertisements, helping to get 30+ beta testers.

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

- 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.

LEADERSHIP

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.
- Hosted OpenHack, UTEP's first open-source hackathon, attended by 30+ first-time contributors.

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, Supabase, Firebase, Flask,
Tools: Linux, Git, GitHub, Docker, AWS, Google Cloud(GCP), Kubernetes, MongoDB(NoSQL), PostgreSQL, MySQL,
Concepts: containerization, unit testing, test driven development(TDD), AI/ML, LLMs, CI/CD, DevOps, code review,