Ashkan Arabi

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EDUCATION

Bachelor of Science, Computer Science

December 2025

The University of Texas at El Paso

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.

GNOME Foundation: Open-Source Contributor

December 2023 - June 2024 | Remote

- 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 | El Paso, TX

- 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 | 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 ☑ 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**.

SKILLS

Coursework: data structures and algorithms, operating systems, parallel computing, deep learning, machine learning, 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, Concepts: containerization, unit testing, multi-threading, concurrency, AI/ML, LLMs, CI/CD, DevOps, code review,