

Iyed Acheche

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SUMMARY

Software developer graduating in December 2026 with a B.S. in Computer Information Technology. Built production Python integrations and ETL pipelines over REST and SOAP APIs for an aviation safety platform, with automated tests and GitHub Actions CI/CD, delivered with external partner developers. Hands-on with agentic AI (LangGraph), Agile development, technical documentation and client-facing communication.

EXPERIENCE

Brazos Safety Systems (aviation safety software) Fort Worth, TX
Intern and Student Contributor Sep 2025 - Aug 2026

- Built a production integration between the company's Django portal and GPMS Foresight, a helicopter health monitoring (HUMS) platform: a FastAPI, SQLAlchemy and PostgreSQL service with hourly polling, JWT renewal and ETL of flight data (FDM) exports.
- Wrote pytest suites and a GitHub Actions CI/CD pipeline that runs them against a PostgreSQL service container and builds multi-platform Docker images.
- Built an API pipeline that takes flight operational quality assurance (FOQA) data from FlightSpan and sends Vref data to the Polaris endpoint over SOAP, delivered from a phased plan with external partner developers.
- Built a weather integration API that feeds real-time METAR data into the FDM platform's flight-safety analysis, as part of an Agile team delivering a weather-driven analytics module.
- Wrote integration plans and phase handoff documentation used by partner developers and AI coding agents.

Teralogix (early-stage startup) Naples, FL
Software Engineering Intern Jun 2025 - Aug 2025

- Helped build the proof of concept for Cristos, an AI-driven workflow platform that automates virtual actions, using Node.js, Python and LangGraph agent workflows, working with engineers and product leads.

Texas Christian University, Information Technology Fort Worth, TX
IT Intern Jan 2023 - Apr 2025

- Resolved 80+ IT issues per semester for students and staff: troubleshooting, software installs and updates, security compliance.

PROJECTS

Froggie 5-O, campus-safety ride-sharing web app *Node.js, Express, React, PostgreSQL, Socket.io*

- Built real-time ride requests, chat and location tracking, with authentication, sessions and PostgreSQL persistence on an Express server and a React UI.

Hogwarts Artifacts Online, course project *Java 17, Spring Boot, Spring Data JPA, JUnit, Mockito*

- Built a multi-layered REST API (controllers, services, repositories, DTO converters) with full CRUD over a one-to-many JPA data model, centralized exception handling and 33 automated unit and controller tests.

EDUCATION

Texas Christian University Fort Worth, TX
B.S. Computer Information Technology (Department of Computer Science), GPA 3.5 Expected Dec 2026

Honors: Chancellor's Scholar, Trustee's Scholar, Dean's List

Relevant coursework: Machine Learning (gradient descent optimization), Cloud Computing, Networking, Databases, Cybersecurity

African Leadership Academy Johannesburg, South Africa
Cambridge A-Levels; leadership and entrepreneurship curriculum Aug 2020 - Jun 2022

SKILLS

Programming: Python (back end and scripting), Java, JavaScript, SQL, HTML, CSS, C (basic)

Frameworks and APIs: Django, FastAPI, Spring Boot, Node.js, Express, SQLAlchemy, REST APIs, SOAP, JWT authentication

Data and AI: PostgreSQL, ETL and ingestion pipelines, LangGraph (agentic AI)

Testing and DevOps: pytest, JUnit, Mockito, GitHub Actions CI/CD, Docker, Git, Linux (coursework), Azure, AWS (S3)

Tools and front end: VS Code with GitHub Copilot, Cursor, React, Vue.js, TailwindCSS, Socket.io

Languages: Arabic, French, English (fluent); German, American Sign Language (basic)

LEADERSHIP AND ACTIVITIES

Student Ambassador, TCU: campus and VIP tours; Chancellor's and International Student Panels 2022 - Present

Co-Founder, CodeInn, Sousse, Tunisia: youth coding initiative across three regions; taught 300+ students Dec 2016 - Nov 2019

Team Leader, Everse, Johannesburg: ALA-funded project bringing affordable tech to 30+ remote artists Nov 2021 - Apr 2022

Programs: Google Hackathon (hardware track), Yale Young Global Scholars, LaunchX (University of Michigan) 2018 - 2026