

Ali Jifi-Bahlool

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Education

University of Texas at Arlington

May 2026

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database & File Structures, Operating Systems, Software Project Management, Software Engineering Principles, Computer Networking, Machine Learning, Neural Networks

Leadership: Association of Computing Machinery (ACM) at UTA - Research Officer & Treasurer, Alpha Tau Omega Leadership Development Fraternity - Executive Board Member, HackUTA - Technical Officer & Creative Organizer, Students in Computing & Artificial Intelligence (SCAI) - Officer

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C/C++, C#, SQL (MySQL, PostgreSQL, SQLite), Kotlin, PHP, HTML, CSS

Frameworks/Libraries: Node.js, Flask, React, Next.js, React.js, Angular.js, JUnit, Tensorflow.js, Keras, NumPy, .NET Framework, WinPcap

Tools: Git, GitHub, AWS, Docker, Kubernetes, Linux, Unix, MongoDB, Firebase, Vercel, Google Cloud, Microsoft Office

Competencies: Advanced Level Programming, Databases and Structures, Algorithms and Data Structures, Windows/Linux OS Proficiency, Hardware/Software Installation and Configuration, Organizational Skills, Project Management, Full Stack Development, Leadership and Communication Skills, MS Office Certification/Proficiency

Experience

Tabflow - Freelancing Services Startup – AI Engineer Intern

Apr 2024 - Jan 2025

- Developed an automated proposal generation tool using **Python**, **OpenAI API**, and **Supabase** backend, reducing proposal creation time by **54%** for **200+** freelancers and testers, and increasing proposal win rates by **17%** by applying **predictive models** and **scalable machine learning** in production systems
- Built revenue tracking system connecting **25+** bank accounts via **Plaid API**, delivering personalized recommendations that helped identify an average of **\$1K** in potential monthly revenue opportunities per client by applying **statistical analysis** and **data mining** on financial datasets
- Provided technical support for API integrations, resolving **97%** of backend system issues within **48** hours and reducing development downtime by **28%** through **model-driven error analysis**, ensuring uptime of critical systems
- Built internal knowledge base with **10+** technical guides, enabling team self-service for common issues

UT Arlington SCAI – Freelance Software Engineer

Jan 2024 - Mar 2024

- Led a cross-functional team of **15** engineers in the agile development of a scalable class management system, architecting a modular **RESTful API** with **Flask**, to enable real-time updates and ensure system uptime.
- Optimized a grade-book API using **SQLite** by migrating from inefficient single-table scans to indexed queries, improving query performance and reducing response time from **900 ms** to **120 ms** on **25,000** rows.

Projects

MavGrades

Next.js, JavaScript, React, Tailwind CSS, SQLite

- Engineered an interactive academic analytics platform, visualizing real-time grade distributions via **Chart.js** for UTA professors and courses, scaling to **10,000+** total users and **500+** daily users
- Optimized search functionality for a dataset of over **50,000** grade entries by implementing efficient indexing and query strategies in **SQLite**, reducing query response time by **42%**

Personal Firewall Project

C#, .NET Framework, WinPcap, SQLite

- Currently developing a network firewall application using **C#** and **.NET Framework**, implementing packet filtering with **WinPcap** and **Windows Filtering Platform APIs**, featuring **SQL Server database** for rule management and real-time network traffic monitoring

Qube – Research Project

JavaScript, React, Node.js, CSS, Firebase, Qiskit

- Developed a modernized visual programming language based on **Scratch** and **Qscratch**, enabling students to learn quantum computing concepts through drag-and-drop interface without complex mathematical prerequisites
- Implemented quantum gate simulation and visualization system using **JavaScript**, allowing real-time quantum circuit construction and execution, by applying mathematical modeling, and with interactive qubit state representations
- Designed educational modules covering quantum fundamentals including superposition, entanglement, and quantum algorithms, reducing learning curve for quantum programming by providing intuitive visual feedback for abstract concepts