

SULTAN ALMOTIRI

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EDUCATION

Bachelor of Science in Computer Science

Arizona State University

Dean's List

Tempe, AZ

Jan 2023 - May 2027

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, Java, SQL, HTML/CSS, Bash, TypeScript

Technologies: PostgreSQL, Supabase, Docker, Linux, Git, GitHub, CI/CD, React, Node.js

AI/ML: OpenAI API, RAG, LangChain, pgvector, NLP, Vector Embeddings, Semantic Search,

TECHNICAL PROJECTS

Stock Price Prediction Simulator (LSTM-inspired) [\[Demo\]](#), [\[Github\]](#)

- Implemented lightweight LSTM simulation with custom neural network architecture, achieving 78% directional accuracy through weighted time-series analysis and technical indicators
- Engineered feature extraction pipeline processing SMA, RSI, and MACD indicators from 200+ days of historical data for multi-variate time series forecasting
- Built interactive visualization with Canvas API showing real-time training progress, validation metrics, and 14-day price predictions with confidence intervals

AI-Powered Q&A Agent for Regulatory Compliance

- Developed AI compliance tool adopted by VPs and Compliance Managers at Bank AlJazira and Al Rajhi Bank, serving 10+ compliance professionals daily across both institutions
- Engineered and deployed custom ML pipeline with dense vector embeddings and metadata-aware reranking, reducing LLM hallucinations by 40% becoming the trusted compliance tool for critical regulatory decisions.
- Deployed WhatsApp AI agent enabling 10+ users to query regulations conversationally, delivering instant high-confidence answers and eliminating manual searches through 500+ compliance PDFs
- Built end-to-end RAG system with OpenAI embeddings and PostgreSQL pgvector, using cosine similarity + hybrid search to reach 95% retrieval accuracy on bank compliance documents

Unbeatable Tic Tac Toe AI [\[Demo\]](#), [\[Github\]](#)

- Developed a responsive web app using HTML, CSS, and JavaScript, featuring animations, persistent stats with localStorage, and a difficulty selector for enhanced UX
- Implemented Minimax algorithm with recursive game tree traversal, ensuring optimal play and delivering an unbeatable AI opponent

EXPERIENCE

Arizona State University - Academic Center, Tempe, AZ: Computer Science Tutor January 2025 – May 2025

- Mentored 10+ students weekly in Data Structures and Algorithms, with 85% reporting improved confidence and 18% average exam score improvement
- Created 50+ visual explanations and practice problems covering dynamic programming, graph algorithms, and complexity analysis
- Conducted one-on-one and group sessions to reinforce algorithm design, recursion, and time complexity analysis.

Arizona State University - IT Department, Tempe, AZ: Deskside Support May 2025 – Present

- Automated device provisioning workflows using Python and Bash scripts, reducing setup time by 50%
- Developed PowerShell scripts for batch software deployment across 300+ enterprise machines
- Provided technical support for executive systems, maintaining 99%+ uptime for critical operations

Formula 1 - Jeddah Corniche Circuit, Jeddah, Saudi Arabia: Supervisor January 2022 – March 2022

- Supervised a team of marshals that overlooked the transportation of media and publicists around the track

RELEVANT COURSEWORK

Data Structures and Algorithms, Machine Learning, Database Management, Theoretical Computer Science, Principles of Programming Languages, Object Oriented Programming, Artificial Intelligence