

# Talal Khan

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## SUMMARY

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I am an accomplished Computer and Software Engineering student with expertise Data Analytics, Developing, and embedded systems programming. My goal is to contribute to innovative projects and ideas. With a strong foundation in Computer engineering principles, practical skills gained through projects and internships, and proficiency in Python, SQL, C/C++, Excel, DEO, and MATLAB, I am eager to apply my knowledge and skills to real- world challenges.

## WORK EXPERIENCE

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### Freelancing — AI/ML Engineer

Jan 2024 - present

**Model Design Development:** Build and deploy machine learning models using frameworks like TensorFlow and PyTorch, focusing on deep learning, NLP, and predictive analytics for real-world applications.

**Data Handling Optimization:** Preprocess data, manage pipelines, and optimize databases (SQL,Pinecone) to ensure high-quality inputs, while integrating APIs and cloud services like AWS or Azure.

**Collaboration Deployment:** Work with cross-functional teams to prototype, test, and scale AI solutions, emphasizing performance tuning, ethical AI practices, and business-aligned insights.

### Qaswa Industries — Dev and Tester

Jan 2025 - present

**Website Development:** Designed, developed, and maintained responsive E-tendering Portal for Industry using HTML, CSS, JavaScript, and frameworks such as React or Express.js.

**Backend Integration:** Built and managed server-side functionality using Node.js, integrating APIs to enhance website features.

**Database Management:** Developed and optimized database structures using PostgreSQL or MySQL, ensuring efficient data retrieval and storage.

**Testing Debugging:** Conducted regular testing and debugging to ensure high-quality and error-free deployment.

### FreeLancer — GoHighLevel

Jan 2023 - present

**All-in-One Platform:** Combines CRM, marketing, and scheduling tools for streamlined client management.

**White-Label Branding:** Fully customizable for agencies to resell as their own service.

**AI-Driven Automation:** Enhances efficiency with automated workflows and analytics

## PROJECTS

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### MedicalChabot

**Tech Stack:** LLMs, LangChain for RAG, Pinecone for vector search, Flask for web API, AWS for deployment.

**Functionality:** Ingests medical documents, stores embeddings in Pinecone, retrieves relevant info, and generates accurate responses via Flask interface.

**Purpose:** Educational; demonstrates AI-driven healthcare apps (not for real medical use).

Ecommerce Store with Voice Navigation

A full-stack e-commerce platform with voice-activated browsing, search, and checkout using Web Speech API for accessibility.  
Voice-driven product discovery and cart management.  
User auth, product catalog, secure payments, order tracking.  
Accessible for visually impaired/mobile users.

E-Tendering Portal

A production-ready project for an e-tendering system, enabling secure, efficient management of tender processes with a modern, scalable architecture. The project includes a responsive single-page application (SPA) frontend and a robust RESTful API backend, designed for industries to streamline bidding, document uploads, and user authentication. Frontend: Fast, responsive UI with real-time state management, routing, and user notifications.  
Backend: Secure API with JWT-based authentication, file uploads, email notifications, and detailed logging.  
Database: Optimized PostgreSQL for efficient tender, user, and bid data storage/retrieval.  
Functionality: User registration/login, tender creation, bid submission, file uploads, and email alerts.

EDUCATION

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- 2024 - Bachelors of Science, AI at COMSATS University
- 2020 - Intermediate, Pre-Engineering at Wah Collage Public School and College System
- 2018 - Matriculation at Wah City Public School and College System

TRAITS AND SKILLS

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Personal Traits	Skilled Collaborator, Rapid and Adaptive, Effective Cross Functional Communicator, Ability To Learn from Failure, Solution Oriented Professional, Able to Work Under Pressure and Meeting Deadlines, Team Oriented, Creative & Innovative, Leadership
Software Skills	Pern, CRM, AI/ML, Microsoft Office, Machine Learning, Excel, Power BI