

Muzamil Ali

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Karachi, Pakistan

EDUCATION

- National University of Computer & Emerging Sciences (FAST-NUCES)** Karachi, Pakistan
 - Bachelor of Science in Computer Science; CGPA: 3.03/4.0* Aug 2024 - Aug 2028
 - Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Database Systems, Computer Organization & Assembly Language, Operating Systems, Discrete Structures*

SKILLS SUMMARY

- Languages:** Python, C++, C, JavaScript, SQL, HTML5, CSS3
- AI & LLM:** OpenAI API (GPT-4o-mini), Prompt Engineering, LLM Integration, Structured JSON Extraction, TextBlob
- Frameworks:** FastAPI, React (Vite), Streamlit, Pydantic, SQLAlchemy, Raylib, ENet, Tailwind CSS
- Databases:** PostgreSQL, MySQL, SQLite, Oracle SQL, Supabase
- Tools & Platforms:** Git, GitHub, n8n, Render, Vercel, GitHub Pages, VS Code, Linux
- Concepts:** REST API Design, CRUD, ORM, Webhooks, Stored Procedures, Authentication, Audit Logging, OOP, Client-Server Networking
- Security (Learning):** OWASP Top 10, Wireshark, Burp Suite, Network Traffic Analysis, Secure System Design

EXPERIENCE

- Tulip ERP — RO Water Plant Management System** Karachi, Pakistan
 - Full-Stack Developer (Freelance Client Project)* Feb 2026 - Present
 - Full-Stack ERP:** Built and deployed an end-to-end management system for a local RO water plant using a FastAPI (Python) REST backend, a React + Vite dashboard, and a PostgreSQL database, digitizing customer, pricing, and daily sales operations.
 - Workflow Automation:** Engineered a “Daily Dispatch” module that auto-populates customer-specific pricing and bottle counts, cutting routine entry of 60+ daily delivery logs from roughly 20 minutes to under 5.
 - Data Integrity:** Implemented core business logic with PostgreSQL stored procedures and atomic transactions, enforcing all-or-nothing bulk submissions to eliminate partial or corrupted records.
 - Auditing & Insights:** Added structured audit logging (Loguru) to trace every record modification, and built a live statistics module computing top customers and total revenue.

PROJECTS

- AI Smart-Distiller — LLM Information Pipeline — Python, OpenAI (GPT-4o-mini), Streamlit, n8n:** Team project — owned the backend logic and API integration. Built the extraction layer that calls GPT-4o-mini with an engineered system prompt returning strict JSON (summary, tasks, deadlines), and a webhook layer that POSTs the structured output into an n8n workflow routing it to Google Sheets, Discord, and email. Cut document triage from roughly 45 minutes to under 30 seconds, with a mock “Demo Mode” fallback for key-less runs.
- Multiplayer Pong Game — C++, Raylib, ENet, OOP:** Collaborative team project: a real-time Pong game with online, offline, and vs-computer modes rendering at 60 FPS. Integrated ENet to synchronize game state and connection status between two networked clients, and built an object-oriented engine (Ball / Paddle classes) with a swappable theme-and-skin system and custom menu UI.
- NotesFlow — Full-Stack Notes App — FastAPI, SQLAlchemy, MySQL, JavaScript:** Account-based notes application with full CRUD and flexible authentication (login via email, username, or phone) verified through SQLAlchemy. Deployed end-to-end with the backend on Render and the frontend on GitHub Pages, with toast-based notifications for real-time feedback.
- Inventory Management System (CLI) — C, File I/O:** Lightweight terminal-based inventory application with full CRUD and file-based persistence, built in C for fast offline use.
- Other Projects::** Emoji Reaction AI (Python, TextBlob — real-time emotion-to-emoji classifier) — User Management REST API (FastAPI, Pydantic, SQLAlchemy, SQLite — deployed on Render) — Dynamic Weather Web App (Vanilla JavaScript, OpenWeatherMap API)

SECURITY FOCUS & SELF-STUDY

- Web & Application Security:** Studying the OWASP Top 10 and common web vulnerabilities — injection, broken authentication, and insecure data exposure — grounded in hands-on experience building auth flows, REST APIs, and database layers.
- Tools & Techniques:** Hands-on with Wireshark for network-traffic analysis and Burp Suite for web-application testing; explored ARP spoofing / MITM fundamentals in a controlled lab setting.