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SKILLS

- Programming Languages:**
C++ , Python, PHP , JavaScript
- Web Development:**
HTML, CSS, Bootstrap, Tailwind CSS, Laravel, Alpine.js, Node.js, Streamlit, Plotly , Django (Basic), WordPress (Practical Experience)
- Desktop & AI Development:**
Python (Tkinter, CustomTkinter), NLP-based projects, Computer Vision, PyInstaller ,Retrieval-Augmented Generation (RAG), Time-Series Forecasting (ARIMA), LLM API Integration
- Tools & Tech & Agents:**
GitHub, VS Code, Android Studio, Visual Studio 2022, Figma, XAMPP,Laragon, Cisco Packet Tracer, n8n (Automation) ,ngrok ,python-docx, Groq Cloud / Ollama APIs
- Databases:**
MySQL, SQL Server
- Soft Skills:**
Adaptability, Problem Solving, Team Collaboration, Critical Thinking, Time Management
- Languages:**
English
Urdu
Punjabi

Awards & Achievements

- Finalist / Participant – AMD Developer Hackathon: Act II (2026)
- Winner – UET Codex 3.0 ITech 2025
- Talent Quest Fest 2.0 – UMT

Certifications

- Python – HackerRank
- SQL – HackerRank
- JavaScript –HackerRank
- WordPress – Practical Knowledge

AGHA ESSA KHAN

Software Engineer | Web Developer

About Me

Software Engineer and Web Developer with skills in C++, Python, JavaScript, and PHP (Laravel). Experienced in web and desktop development, front-end technologies, and full-stack projects. Hands-on experience in AI, automation, and working with Intelligent Agents. Passionate about solving real-world problems and building practical, innovative solutions.

Education

- Bachelor of Information Technology**
University of Management and Technology
2023 – 2027 | CGPA: 3.44
- Intermediate (Pre-Medical)**
Unique College -106A
2021 – 2023 | Grade: A
- Matriculation (Science)**
Unique High School
2019 – 2021 | Grade: A+

Experience / Projects

- AI Quant-Coder – Quantitative Trading RAG Assistant**
Tech: *Python, Streamlit, Statsmodels (ARIMA), yfinance, Llama-3 (Groq/vLLM), TF-IDF vector RAG, python-docx*
Developed an end-to-end financial dashboard that pulls live stock records and calculates rolling technical indicators (RSI 14D, SMA crossovers).
Integrated a statistical ARIMA forecasting engine to predict future 30-day closings and injected the live forecast context into LLM system prompts.
Engineered a custom TF-IDF Vector Search Engine (TradingRAG) to dynamically retrieve matching strategy templates.
Implemented isolated background worker threads to manage real-time LLM stream queries, ensuring a high-performance, fluid UI.
Export the entire analysis and Consolas-formatted code directly into structured Word.
- Safa & Marwa – Travel Agency Management Portal**
Tech: *Laravel, PHP, MySQL, Tailwind*
Developed a complete travel agency management system with booking, invoicing, payments, office management, and role-based access control (RBAC). Integrated dashboard reporting and PDF invoice generation.
- LabOS Management - AI Diagnostic Dashboard**
Tech: *PHP, Laravel, MySQL, Tailwind CSS, AI Agents*
Built a web-based lab system to manage patients, test records, billing, and inventory.Implemented secure admin/staff access, automated digital workflows, and AI-powered diagnostic reporting.
- NOVA – AI Personal Voice Assistant**
Tech: *Python, Tkinter, Speech Recognition*
Created a desktop voice assistant with speech recognition, automation features, and a custom-designed GUI.
- AI Academic Information Extraction & Model Comparison**
Tech: *Python, NLP, scikit-learn*
Built an NLP-based system to extract academic data from research abstracts and compared ML models using precision, recall, and F1-score.
- Face Mask Detection System (Team Project)**
Tech: *Python, TensorFlow/Keras, OpenCV*
Implemented a real-time image classification system to detect mask compliance using live camera input.