Asif Ali

Karachi, Pakistan | +92 330 2541908 | asif.alimusharaf@gmail.com | linkedin.com/in/asif-ali-a1879a2ba | github.com/asifaliattari | youtube.com/@AstolixGen | x.com/Asif888802

Professional Summary

Award-winning Full-Stack Developer and AI Engineer with 22 years of technical experience. Karachi City Hackathon Winner 2021 for IoT innovation. Expertise in Python, TypeScript, Next.js, AI frameworks (LangChain, OpenAI), IoT systems, and robotics. Decorated military veteran with international operations across 7 countries. Awarded Tamgha-i-Khidmat (Pakistan's 7th highest government honor). Proven track record in building scalable AI applications, embedded systems, and cross-cultural team coordination.

Skills

Python, Data Analysis, JavaScript, TypeScript, C++, C#, HTML5, CSS Web Development: React, Next.js, FastAPI, Laravel, Streamlit, Chainlit AI & ML: LangChain, OpenAI API, Gemini AI, Agentic AI, LLM Fine-Tuning, AI Chatbots IoT & Robotics: Arduino, Microcontrollers, Sensors, Edge Computing, Embedded Systems, Docker , Autonomous Navigation Communication Systems: Network Infrastructure, Secure Protocols, Defense Communications, CW Morse Code (Expert) Tools: Git, GitHub, MS Office, APIs, Data Processing

Professional Experience

➢ **Communication Technician Pakistan Navy March 2003 - August 2025:**

- Operated advanced communication and network systems for 22 years across Kuwait, Oman, Bahrain, Djibouti, Egypt, Jordan, and Saudi Arabia
- Expert in CW Morse Code communication for secure military operations and emergency communications
- Coordinated cross-cultural technical teams ensuring 99% uptime for secure communication infrastructure
- Awarded Tamgha-i-Khidmat in August 2025 for exceptional technical service and operational excellence
- Managed network security protocols and delivered technical training to multinational teams

➢ **IoT & Computer Vision Developer Aptech Education 2022 – 2024:**

- Won Karachi City Level Aptech Hackathon 2021 developing IoT-based low-cost autonomous vacuum cleaner
- Built 4-wheel obstacle avoidance robot car, harmful gas detection system, and smart stick for visually impaired
- Developed edge computing solutions optimizing embedded software reducing latency by 40%
- Delivered 8+ IoT hardware and software integration projects with real-time data processing pipelines

➢ **Amazon FBA Specialist UK-Based E-Commerce Brand 2023 – 2024:**

- Managed international e-commerce operations optimizing inventory and increasing sales performance by 25%
- Analyzed global market trends and automated reporting processes improving operational efficiency

➢ **Data Analytics | E-commerce Operation**

- Analyzed international e-commerce sales and inventory data to identify demand trends and optimize product performance across global marketplaces.

- Used product sales sheets and supplier data to monitor pricing, margins, and stock movement, supporting data-driven decision making.
- Conducted product and market analysis using Keepa to evaluate historical price trends, sales rank, and demand patterns.
- Automated sales and inventory reporting using spreadsheets, improving operational efficiency and reducing manual tracking.
- Evaluated supplier performance and product approval data to support seller account setup and successful product listings.
- Translated raw sales data into actionable insights to improve inventory planning and increase overall sales performance.

Education

Agentic AI Engineering Program | Panaversity (PIAIC) | March 2025 - Present Focus:
Generative AI, Agentic AI, LLM Fine-Tuning

Software Engineering Program | Governor IT Initiative (GIAIC) | January 2024 - Present Focus:
TypeScript, Next.js, Python, Full-Stack Development, Agentic AI

Aptech Certified Computer Professional (ACCP Prime) | Aptech Pakistan | March 2024 Focus:
Software Development, Programming, Web Technologies

Communication Systems & Technology | Pakistan Navy Training Centers | 2003 - 2025 Focus:
Advanced Communication Systems, Network Infrastructure

Bachelor | Virtual University of Pakistan | 2026 - Applied:
BBIT (Bachelor of Business & Information Technology)

Intermediate | High School | 2002 :
FSC Pre-Engineering |Govt Islami Science & Commerce Colleage Karachi, Pakistan

Certifications

- Tamgha-i-Khidmat Award 2025 - Government of Pakistan's 7th Highest Honor
- Karachi City Level Aptech Hackathon Winner 2021 - IoT Autonomous Vacuum Cleaner
- Aptech Certified Computer Professional (ACCP Prime)
- Pakistan Navy Technical Certifications - Communication Systems
- Security & Weapon Training
- Nuclear Biological Chemical and Damage Control (Fire Fighting)
- Google Local Guides Level 7 Contributor

Key Projects

- IoT Autonomous Vacuum Cleaner (Hackathon Winner 2021) - Built low-cost autonomous vacuum using Arduino and ultrasonic sensors, reducing manufacturing cost by 60%
- 4-Wheel Obstacle Avoidance Robot - Developed autonomous robot with real-time obstacle detection using sensor arrays and navigation algorithms
- Harmful Gas Detection System - Created IoT gas monitoring system with real-time alerts for CO, LPG, and smoke detection
- Smart Stick for Visually Impaired (In Progress) - Engineering assistive device with ultrasonic sensors and haptic feedback for obstacle detection

- GitHub Finder & AI Chatbot - Streamlit app integrating GitHub API and Gemini AI for repository search and conversational interactions
- Medicine Finder App - Full-stack Next.js application with search and filter functionality for pharmaceutical products
- Built a Spec-Driven Technical Book multilanguage and RAG Chatbot using Docusaurus v3, Spec-Kit Plus, and Claude Code with automated deployment to GitHub Pages. Ensured technical accuracy, beginner-friendly writing, and fully reproducible tutorials through structured AI-assisted workflows.

Languages

English | Urdu | CW Morse Code