AZFAR SUHAIL

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EDUCATION

Institute of Business Management — BS Computer Science | CGPA: 3.36 — Expected Jan 2027
TED University — Semester Exchange, Computer Engineering — Fall 2024

CERTIFICATIONS & ACHIEVEMENTS

- **ASPIRE Pakistan:** Pak Angels Gen AI, Top Performer (Cohort 11)
- **Claude Academy:** Claude Code in Action, Building with the Claude API, MCP, Claude Platform 101, Bedrock, Vertex AI
- **n8n Academy:** Foundations Pathway (Essentials, Integrations, In Practice: AI & Testing), Quickstart
- **NSCT:** Scored in the 96.7th Percentile
- **PIAIC:** Certified Cloud Applied Generative AI Engineer (GenEng)
- **DataCamp, PIAIC:** Data Analytics

EXPERIENCE

Traders Global Generation | Junior Software Engineer | Karachi, Sindh — Aug 2026 – Present

- Built **3** role-based frontends (admin, moderator, user) for a social marketplace platform in **Next.js**, backed by **Redis** trend tracking and **AWS EC2**/**RDS** hosting.
- Shipped iOS test builds of the platform's in-development mobile app to **TestFlight** by building it with **Expo** and **React Native**.
- Caught regressions before release on an outsourced project by running functional and regression tests, reproducing defects and verifying fixes.

Tapmad Entertainment | Streaming Intern | Karachi, Sindh — Dec 2025 – Feb 2026

- Increased marketing clip output by **70%** by building a real-time clipping platform that ingests live SRT subtitle feeds and cuts clips with GPU-accelerated **FFmpeg**.
- Took the pipeline from empty repo to a running production system in **14 days** by containerizing it with **Docker** and configuring the server end-to-end.
- Enabled automated and manual clipping with branded intros, outros and user-uploaded logo overlays, exported in the original aspect ratio or as vertical reels, by building a full-stack web interface (**FastAPI**, HTML/CSS/JS) on **FFmpeg**.

JCCAIR Journal | Technical Administrator | Remote — Jun 2025 – Present

- Launched the journal's **OJS** platform and have kept it running as sole technical administrator by installing it on Hostinger, managing the server over **SSH**, scheduling **cron** jobs and fixing issues with PHP CLI.

Websity Digital | Software Engineer Intern | Karachi, Sindh — Jun 2025 – Sep 2025

- Cut proposal generation from several hours to under **2 minutes** for batches of **100+** clients by building a dashboard that automates prospect data scraping and visualization.
- Removed the content team's ChatGPT Pro rate-limit bottleneck, with zero downtime in asset generation, by building an internal **Streamlit** wrapper for the **DALL-E 3 API**.

PROJECTS

Final Year Project: AI Medical Diagnostic Application ***FastAPI · React Native · CNN · RAG · AWS EC2***

- Achieved **97.8% accuracy** in Kellgren-Lawrence (KL) knee grading with sub-second inference by training a custom CNN behind a **FastAPI** backend and **React Native** app.
- Supported **32** concurrent users by deploying the app and its **RAG** wellness agent to **AWS EC2 (g4dn.xlarge)** through **PyTest**-backed **CI/CD** pipelines.

Big Data E-Commerce Analytics Pipeline ***Hadoop · Apache Hive · Docker · Beeline · SQL***

- Processed a **300,000-record** e-commerce dataset by building a containerized, fault-tolerant **Hadoop** cluster with an **Apache Hive** star-schema warehouse.
- Cut multi-table join time by an estimated **40%** and resolved out-of-memory failures by tuning map-side join configurations.

AI-Powered GitHub Repo Auditor ***n8n · GitHub API · Gemini API · Google Apps Script***

- Delivered AI repo audits as HTML email reports without cloning repos by building form-triggered **n8n** workflows that chunk repo content for the **Gemini API**.

LEADERSHIP & ACTIVITIES

Google Developer Student Club – IOBM | Executive Director, App Development — Jan 2024 – Dec 2024
Erasmus+ | Food Literacy Learning Program | Ankara, Türkiye — Oct 2024

- Led student–industry conversations as GDSC Executive Director; completed Erasmus+ week-long nutrition and food policy training organised by ODTÜ, MEVKA, AKAPDER & the Turkish Ministry of Agriculture.

SKILLS & INTERESTS

Languages: Python, TypeScript, Java, C++, C, Bash Scripting, PowerShell, HTML
Frameworks/Tools: FastAPI, React.js, Next.js, Node.js, Docker, AWS, Ansible, Linux Server Management, FFmpeg, Vercel, n8n, Postman, Tkinter, uv
Libraries/Skills: AI Agents, GPU Acceleration, Video Processing/Streaming, Pandas, NumPy, Automation, Matplotlib, Shadcn UI, Bootstrap
Interests: Chess, Horseback Riding, Strength Training, Swimming