

NOMAN AMJAD

AI Engineer | Full Stack Developer

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PROFESSIONAL SUMMARY

AI and Backend Engineer with production experience building agentic chatbot systems, RAG pipelines, and fullstack web applications at a US-based AI startup. Skilled across the stack - Python (Django/FastAPI) backends, React/TypeScript frontends, LangChain/LangGraph agentic workflows, and vector-database-powered retrieval. Equally comfortable with automation pipelines, web scraping, and application security (RLS, end-to-end encryption) through deployment and cross-team delivery. Gold Medalist, BSCS with AI specialization (3.96/4.0 CGPA).

TECHNICAL SKILLS

Languages

Python, TypeScript, JavaScript, C++, SQL

AI / ML

LangChain, LangGraph, RAG, Agentic Workflows, LLM Integration (GPT-4o, Gemini), PyTorch, TensorFlow, scikitlearn, OpenCV, YOLOv8

Tools

Git/Github, Jira, Playwright, Selenium, Linux

Backend

Django, FastAPI, REST APIs, Pydantic

Frontend

React, TypeScript, Tailwind CSS, Zustand, Bootstrap

Vector DBs & Embeddings

Qdrant, FAISS, ChromaDB, VoyageAI

Databases & Infrastructure

PostgreSQL / Supabase, SQLite,

Docker, Coolify, Railway, AWS, Hugging Face Spaces

Automation

n8n, Make.com, Relevance.ai, Apify

Security

Supabase RLS hardening, E2E Encryption (ECDH P-256, AES-256GCM)

EXPERIENCE

ReadyChatAI LLC

AI & Backend Developer

Remote — Chicago, USA

Nov 2025 – Present

- Built and scaled the core multi-tenant AI chatbot microservice (FastAPI) for automated DM sales and support across WhatsApp, Instagram, and Facebook. A LangGraph agentic system with 15+ tools (ordering, appointments, escalation, RAG).
- Built a multi-tenant RAG layer (Qdrant + VoyageAI) with per-business isolation and integrated the service with the Django monolith via REST APIs, Bearer auth, and callbacks.
- Shipped an embeddable website chat widget (few-line embed + self-serve dashboard API), hardened with rate limiting, domain validation, and message-size limits.
- Designed an SSO observability dashboard (KPI cards + Chart.js views) for bot health and reply performance; re-engineered the metrics to a suppression-aware model, correcting reply rate from ~44% to ~56–70% and cutting false "bot down" alerts to near zero.
- Built an agentic marketing-content pipeline: multi-source ingestion (Apify scraper, YouTube API), original article/carousel/image generation for company brands, and scheduled publishing via Metricool plus auto-publish to the company blog.
- Rebuilt the internal customer-support chatbot as a LangGraph agent with guided tutorials, a documentation RAG pipeline, and automated Jira escalation.
- Deployed a production listing scraper for HabitaOne (MercadoLibre) covering all sale and rent listings, beating strong bot detection with residential proxies, throttling, and user-agent rotation (Playwright).
- Built the TranslateText web client (React/TypeScript) with end-to-end encryption (ECDH P-256, AES-256-GCM) and Supabase RLS hardening; coordinated mobile/backend/frontend and ran QA.

NISAR Laboratory, KUAS

Research Intern – AI

Remote — Kyoto, Japan

Oct 2024 – Feb 2025

- Conducted research on scalable ML models and optimized deep learning algorithms, managing end-to-end ML pipelines including advanced data preprocessing, model training, and fine-tuning.

EvoSoft Technologies

ML Engineer Intern

Islamabad, Pakistan

Sep 2024 – Oct 2024

- Built end-to-end model development workflows — data preprocessing, feature engineering, algorithm selection, training, fine-tuning, and evaluation across multiple techniques.

Octalooop Technologies

AI Developer Intern

Islamabad, Pakistan

Jul 2024 – Sep 2024

- Developed RAG-based applications using LangChain, LLMs, and vector databases for context-aware retrieval; used low-code tools (Botpress, Make.com) to automate workflows.

PROJECTS

Course Folder Management System — *Python, Django, PostgreSQL, HTMX, Tailwind CSS, Cloudflare R2, Docker*

Role-based academic system for a university department where faculty submit per-course document folders against a flexible two-phase (mid/final) checklist, while an admin reviews submissions, flags missing items in real time, and issues auto-generated PDF review certificates. Built with server-side RBAC and per-faculty data isolation, secure cloud object storage (signed-URL access with image thumbnails), multi-term history, and exportable admin reports deployed on Render with managed PostgreSQL and Cloudflare R2 storage.

Credit Risk Assessment (ML) — *Python, scikit-learn, XGBoost, Streamlit, Hugging Face Spaces*

End-to-end ML pipeline with EDA and statistical feature engineering; benchmarked Decision Tree, Random Forest, and XGBoost (best performer), deployed on HF Spaces and packaged as a standalone executable.

Multilingual Generative AI Voice Assistant — *Python, Google Gemini API, Gradio, SpeechRecognition, gTTS*

Voice- and text-enabled assistant supporting Urdu and English with real-time transcription, intelligent responses, and text-to-speech in a conversational UI.

EDUCATION

BSCS — Specialization in Artificial Intelligence

PMAS-Arid Agriculture University Rawalpindi (UIIT Campus)

Oct 2021 – Jul 2025

CGPA 3.96/4.0 — Gold Medalist

Relevant coursework: AI, Machine Learning, Deep Learning, Computer Vision, NLP, Advanced Statistics, Databases, OOP, Software Engineering, DSA, Information Security.

CERTIFICATIONS

- Machine Learning Specialization — Andrew Ng, DeepLearning.AI (Coursera) [Verify ↗](#)
- Machine Learning with Python — IBM (Coursera) [Verify ↗](#)
- Python: Flask & Django — Great Learning [Verify ↗](#)
- Mastering Python, NumPy & Pandas — Udemy [Verify ↗](#)
- Machine Learning Summer School— Cohere Labs [Verify ↗](#)
- Data Seekho Bootcamp — Data Science [Verify ↗](#)

ACHIEVEMENTS & ACTIVITIES

- **Gold Medalist** — BSCS (AI specialization), 3.96/4.0 CGPA.
- **Top Performer** — Dev Quest Web Development Competition ([Verify ↗](#)) and Python Frenzy Programming Competition ([Verify ↗](#)).
- **Volunteer, Aridian Array Software Society** — organized and hosted student training sessions on emerging technology skills.