

# Talal Tariq

**Education** Karachi, Pakistan | +92-333-1304778 | talaaltariq4778@gmail.com | linkedin.com/in/talal-tariqq | Github

## NED University of Engineering & Technology

Aug 2024 – Expected 2028

*Bachelor of Science in Computer Science*

*Karachi, Pakistan*

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, C/C++
- **Achievements:** 2× Semi-finalist, KoderzKombat · 50+ LeetCode problems solved · Presented research poster, “The Architects of Mind”

## Professional Experience

### Alphatron Tech. – NED, MMSELab

Jul 2026 – Present

*AI/ML Research Intern*

*Karachi, Pakistan*

- Contributed to real-world AI solutions by architecting and testing robust machine learning models.
- Applied ML/DL techniques and rigorous data preprocessing workflows to optimize system performance in a collaborative R&D environment. .

### Developer’s Hub Corp.

Apr 2026 – Jun 2026

*Full Stack Development Intern*

*Karachi, Pakistan*

- Built a scalable e-commerce platform (React, Node.js, MongoDB) covering core features – product catalog, cart, check-out – from schema design through deployed UI.
- Designed and shipped Nexus, a startup–investor collaboration platform with deal-flow tracking, owning REST API design and end-to-end deployment as part of a team.

### Self-Employed

Jan 2024 – Present

*Freelance Web Developer*

*Karachi, Pakistan*

- Grew a 15+ client base using a proactive, demo-first outreach model – building speculative demo sites for local businesses and pitching them directly on social media.
- Designed, built, and deployed mobile-responsive websites end-to-end for small business clients, translating informal business requirements into production-ready platforms.

### CSIT Student Clubs & AI Alliance Society, NEDUET

Dec 2025 – Present

*Technical, Management & Core Team Member*

*Karachi, Pakistan*

- Co-organized TechFest, NED’s flagship CS event, and led 4+ AI-focused seminars and workshops reaching 100+ students.
- Facilitated hackathons and hands-on programming workshops as part of the core technical team.

## Projects

### Modular ML Pipeline for Heart Disease Prediction

2026

*Python, Scikit-Learn, Pytest, CI/CD*

- Built a production-ready ML pipeline reaching 82% accuracy and an 80.33% F1-score using custom feature-engineering indicators.
- Tuned a Random Forest model with GridSearchCV and automated feature selection via SelectKBest (ANOVA) to improve performance.
- Added unit tests with Pytest and a GitHub Actions CI pipeline to run automated tests on every commit.

### AI-Powered WhatsApp Lead Scoring Platform

2026

*Flask, Gemini API, React, Tailwind, SQLite*

- Built a real-time analytics platform integrating the Meta WhatsApp Business API and Gemini 3.5-flash for multilingual NLP classification of incoming leads.
- Designed a multi-factor lead-scoring engine (Hot/Warm/Cold) feeding a React/Recharts dashboard, applying SHA-256 masking to protect customer data.

### SubSweep – Gmail Inbox Management SaaS

Jan – Feb 2026

*Python, JavaScript, Gmail API*

*Winner, GDG Hackathon*

- Built a Gmail inbox-cleanup SaaS with a swipe-based interface and secure Google OAuth integration, cutting user cleanup time by 70%.

### AI RAG Security Threat Prioritizer

Dec 2025 – Jan 2026

*Python, Streamlit, LangChain, ChromaDB*

*Runner-Up*

- Built a RAG-based tool that analyzes 1,000+ network logs and surfaces context-aware mitigation suggestions to reduce alert fatigue.

## Technical Skills & Certifications

**Languages:** Python, JavaScript, TypeScript, C/C++, HTML/CSS, SQL

**Frameworks & Libraries:** React, Next.js, Node.js, Flask, Tailwind CSS, LangChain, Streamlit, Scikit-Learn, Pandas

**AI/ML:** Deep Learning, NLP, Generative AI, RAG, ChromaDB, Feature Engineering, Hyperparameter Tuning

**Tools & Practices:** Git, GitHub Actions (CI/CD), Pytest, REST APIs, Agile/Scrum, SQLite, MongoDB

**Certifications:** CS50x (Harvard) · AI Fundamentals (IBM) · AI Essentials (Google) · Agile Project Management (HP)