

Abdul Tayab

Software Engineer | AI/ML Engineer | Full-Stack Python Developer

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Summary

Software Engineering graduate with a strong interest in **Artificial Intelligence, Machine Learning, Cybersecurity, and Data Analytics**. Built a diverse technical foundation through academic coursework, professional certifications, hands-on projects, and practical software development. Completed specialized training in **Machine Learning, AI, NLP, Cloud Technologies, and Cybersecurity** from leading global institutions and technology providers. Seeking graduate study opportunities to further develop technical expertise, gain international academic exposure, and contribute to innovative technology-driven solutions.

Education

Bachelor of Engineering (B.E.) in Software Engineering, Iqra University, Karachi 2026

- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Operating Systems, Computer Networks, Software Engineering, Cybersecurity, Web Engineering, and System Design.

Research Interests

Artificial Intelligence and Machine Learning, Cybersecurity and Threat Detection, Network Intrusion and Anomaly Detection, IoT and Cloud Security, Explainable and Privacy-Preserving AI, Large Language Models and Agentic AI for Cybersecurity.

Work Experience

Full-Stack and Systems Engineer, NFTCIPHER Sep 2025 – Present

- Worked as a part-time client-based Full-Stack and Systems Engineer, developing web systems, backend services, databases, and secure APIs.
- Integrated AI-powered chatbots for customer interaction and automated system responses, alongside cloud-based databases and services on AWS and Azure.
- **Tools/Technologies:** React, Node.js, Express.js, MySQL, JavaScript, Firebase, AI/LLM APIs, AWS, Azure, Git, GitHub, REST APIs.

Deloitte Australia – Technology, Data Analytics and Cybersecurity Aug 2025 – Nov 2025

- Completed practical job simulations in data analytics, technology, and cybersecurity, applying Python, SQL, Excel, and Tableau.

PHP Web Developer Intern, Interns Pakistan Jul 2024 – Aug 2024

- Developed web applications using PHP, MySQL, HTML, CSS, and JavaScript, with frontend/backend integration and database operations.

Research Manuscripts

Author(s): Abdul Tayab, Farhan Ali | Year: 2026

- A Secure Agentic AI Framework for Autonomous Cyber Threat Detection, Reasoning, and Response
International Journal of Computer Engineering and Data Science (IJCEDs), 2026. Status: Under Review. Article
- A Unified AI-Driven Digital Evidence Intelligence Framework for Cyber Threat Detection, Forensic Attribution, and Attack Reconstruction
Status: Manuscript Prepared for Publication Consideration. Manuscript
- An AI-Driven Blockchain Forensics Framework for Detecting and Tracing Illicit Digital Asset Transactions
Status: Manuscript Prepared for Publication Consideration. Manuscript

Technical Projects

AI-Powered Car Rental and Ride-Booking Platform, NFTCIPHER 2025 – Present

- Built a full-stack rental and chauffeur platform with AI chatbots, AI/ML features, secure APIs, cloud databases, booking and pricing systems. Technologies: React, Next.js, Node.js, Python, Java, MySQL, MongoDB, Firebase, AI/LLM APIs, AWS, Azure, Docker.

AI-Assisted Remote X-Ray Management and Reporting System (X_aVision) 2025 – 2026

- Developed an AI-assisted DICOM platform for remote X-ray viewing and physician-supported reporting with RBAC and secure APIs. Technologies: Python, Django, React, DICOM, OpenCV, LLM APIs.

AutoApplyPro – AI-Powered Job Application Platform 2024 – 2025

- Developed AI-assisted resume generation, job matching, application tracking, notifications, and recruiter management. Technologies: Node.js, Express.js, MySQL, REST APIs, OpenAI APIs.

AI-Based Cyber Threat Detection and Anomaly Analysis 2023 – 2024

- Developed ML workflows for network monitoring, anomaly detection, and suspicious activity analysis using Python, TensorFlow, and Scikit-learn.

AI-Based Navigation Assistance for Visually Impaired Users 2023 – 2024

- Explored an AI and computer-vision solution for environmental recognition and real-time directional assistance using Python and OpenCV.

AI-Driven Blockchain Forensics Framework 2023

- Designed an AI-driven framework for detecting and tracing suspicious blockchain transactions using ML and graph-based analysis.

Technical Skills

Programming: Python, Java, JavaScript, TypeScript, Dart, PHP, SQL, C

AI/ML & Data: Machine Learning, Deep Learning, NLP, LLMs, Computer Vision, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, PySpark, Tableau

Cybersecurity: Network Security, Threat Detection, Intrusion Detection, Anomaly Detection, Linux Security, Secure APIs

Software/Backend: React, Next.js, Node.js, Express.js, NestJS, Django, Flask, FastAPI, Spring Boot, REST, GraphQL

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Redis

Cloud/DevOps & Tools: AWS, Microsoft Azure, Databricks, Docker, Git, GitHub, CI/CD, Jira, Trello

Certifications

Machine Learning Specialization – DeepLearning.AI & Stanford Online, Sep 2026	Certificate
Machine Learning with Python – IBM, Sep 2026	Certificate
Advanced Topics in Artificial Intelligence – University of Illinois Urbana-Champaign, Aug 2026	Certificate
Natural Language Processing in Microsoft Azure – Microsoft, Aug 2026	Certificate
Cyber Attack Countermeasures – New York University, Aug 2026	Certificate
Google Cybersecurity Professional Certificate – Google, Aug 2025	Certificate
Google Prompting Essentials – Google, 2025	
Introduction to Artificial Intelligence (AI) – IBM, 2026	
Python Programming Essentials – Rice University, 2026	
IELTS Writing Section Skills Mastery – University of California, Irvine, 2026	
IELTS Listening and Speaking Sections Skills Mastery – University of California, Irvine, 2026	

Academic Achievements

- lablab.ai AI Hackathon, 2025: Participated in the global AI Agents on Arc with USDC Hackathon, including the New York City build event.
- NASA International Space Apps Challenge, 2025: Participated in NASA's global hackathon focused on developing technology-driven solutions to real-world challenges.
- Best Project – AutoApplyPro, 2023: Recognized for developing an AI-powered job application and resume management platform.
- Faculty-Supervised Research, Iqra University: Conducted research and laboratory work under faculty supervision.
- Research Symposium, Iqra University, 2024: Participated in research presentation and academic activities.
- Data Structures and Algorithms: Completed 150+ programming and algorithmic problems.

University Leadership, Volunteering and Activities

- Iqra Ushers Club, Iqra University Oct 2022 – Aug 2025
Participated in university event management, student coordination, guest assistance, and academic, cultural, and institutional events.
- Technology and AI Activities, Iqra University
Participated in technology-focused student activities, programming competitions, hackathons, AI-related sessions, and collaborative technical events organized through university communities.
- Hackathons and Innovation Activities
Participated in university and inter-university hackathon activities, including the 2024 Inter-University Hackathon, where the team developed a blockchain-based academic records solution and achieved first place.
- Research Symposium and Academic Events
Participated in academic research activities, research symposiums, seminars, workshops, and knowledge-sharing events at Iqra University.
- International Academic Conferences
Participated in university academic and international conference activities, gaining exposure to research presentations, academic discussions, emerging technologies, and interdisciplinary knowledge exchange.
- Student Community and Event Volunteering
Supported university events through student coordination, volunteer activities, event assistance, and interaction with students, faculty, guests, and external participants.

Languages

English: B2 / Upper-Intermediate | Urdu: Fluent | Sindhi: Fluent

References

Dr. Ali Akbar Siddique – Associate Professor, FYP Coordinator, Department of Bachelor of Engineering University ali.siddiqui@iqra.edu.pk	Iqra
Dr. Rizwan Munir – Associate Professor, Department of Software Engineering rizwan.munir@iqra.edu.pk	Iqra University