Eraj Tanweer

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EDUCATION

NED University of Engineering and Technology   **Karachi, Pakistan**
B.E. in Software Engineering CGPA: 3.82   *May 2022 - Jun 2026*
- o **Focus:** Artificial Intelligence, Machine Learning, Deep Learning, Web Development
- o **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Web Engineering, Database Management Systems, Software Construction and Development, Data Warehousing and Mining

EXPERIENCE

SIRP - *AI Engineer*   *Mar 2025– Present* **| Karachi, Pakistan**
- Building **OmniSense**, a next-gen AI system with integrated threat intelligence for autonomous cybersecurity.
- Developing AI agents for SOAR to automate threat detection, alert triage, and incident response.

Quality Enhancement Cell (QEC) – NED - *Web Developer - Intern*   *Feb 2024 – Jun 2024* **| Karachi, Pakistan**
- Worked with the team on QEC portal project using NodeJS and ExpressJS.
- Created automated workflow to eliminate old manual processes to enhance accuracy and efficiency.

Jinnah Lincoln Foundation - *Analyst Machine Learning - Intern*   *Sep 2023 – Dec 2023* **| New York, USA**
- Gained practical experience in the field of machine learning and data science through an internship at JLF.
- Assisted with various data science tasks, including data analysis, model development, and project implementation.

EvantageSoft Private Limited - *Java Springboot - Intern*   *Aug 2023 – Sep 2023* **| Karachi, Pakistan**
- Gained hands-on experience in Java development by creating APIs using Spring Boot.
- This internship at EVS provided valuable insights into the software development lifecycle and API design principles.

PROJECTS

Elevate360 – AI-Powered Project Management
- Built an intelligent project management system enabling automatic requirement generation and sprint planning, boosting team productivity by 40% and reducing manual effort in task management across 5+ agile teams.

Quality Management System
- Developed a QMS web App using Node.js, Express.js, React.js, and MySQL, benefiting 100+ faculty members.

Deliberatives - Leaderboards to foster learning experience
- Built an employee engagement platform enabling 100+ users to log learning applications, track progress and compete on leaderboards, enhancing peer-driven insights.

Cybersecurity AI Agent (SIRP)
- Designed and deployed an NLP-driven agent within the SOAR platform that automated over 70% of threat triage tasks, reducing response time by 60% and enhancing detection accuracy using custom LLM pipelines.

Disease Detection System
- Developed a CNN-based system in python, achieving 92% accuracy in detecting pneumonia and tuberculosis.

TealHQ - AI-Powered Resume Matching and Cover Letter Generation
- Created a Next.js application to match resumes with job descriptions accurately and generating cover letters.

LearnFlow – Collaborative Learning
- Built an AI-powered study platform, organizing resources with peers and auto-generating 100+ flashcards.

NFL Big Data Bowl
- Built machine learning models (regression, deep learning) to analyze NFL data from 9 weeks, creating metrics for tackling efficiency and improving predictive accuracy by 15%.

ACHIEVEMENTS AND LEADERSHIP

- **Leadership**: President of Software Innovators Club, a 50+ member tech club since Oct 2023, organizing SE Dept. events, and leading the Executive Board of the Cub.
- **Hackathon Wins**: Two-time hackathon winner (Koderz Kombat at Iconics 2022, Web Development Hackathon at Dev Day 2025)
- **Awards**: Merit-based laptop scheme awardee and scholarship recipient at NED University. Winner of Prime Minister's laptop award

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, C++, AI/ML/DL in Python
Tools: Visual Studio, IntelliJ, PyCharm, Azure, Jupyter Notebooks, Git, Bootstrap, Spring Boot, Agile, RAG, Postgres, VectorDB