AMNA MUHAMMAD

SOFTWARE ENGINEERING UNDERGRADUATE | SECURE AI & CYBERSECURITY

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CAREER OBJECTIVE

Motivated Software Engineering student with strong foundations in programming, machine learning, and databases, seeking a Cybersecurity internship. I aim to work on securing AI systems and preventing the unethical and unlawful use of artificial intelligence, while exploring the intersection of Cybersecurity and AI through practical, research-driven work.

TECHNICAL SKILLS

Programming Languages & Frameworks

- Python (Basic to Intermediate)
- C++ (DSA-focused)
- ASP.NET
- Django & Flask

Databases

- SQL
- Microsoft Access

Core Computer Science Concepts

- Object-Oriented Programming (OOP)
- Data Structures & Algorithms (DSA)
- Software Documentation & Requirement Analysis

Machine Learning

- Strong understanding of Supervised Learning
- Model training, evaluation, and data preprocessing

SOFT SKILLS

- Team Management and Collaboration
- Strong Communication Skills
- Leadership Qualities
- Conflict Resolution
- Convincing and Presentation Skills
- Enjoys communication-based and interactive activities

ACHIEVEMENTS & ACTIVITIES

- NASA Space Apps Challenge 2025 – Local Runner-Up & Global Nominee
- Project Pitching Experience at IBA Tech Tank
- Active participation in team-based technical competitions

PROJECTS

Zenith – AI-Based Exoplanet Detection
NASA Space Apps Challenge 2025

- Developed an AI model to detect exoplanets using astronomical data
- Local Runner-Up and Global Nominee
- Worked in a collaborative team environment with defined technical roles

Tahaffuz – Local Crime Reporting Application

- **Pitched at Tech Tank, IBA**
- Conceptualized a secure platform for local crime reporting
- Focused on user safety, privacy, and responsible data handling

Farm2Market (C++)

- Developed as part of a DSA course project
- Implemented efficient data structures and algorithms
- Aimed to bridge the gap between farmers and markets

MedBloom – Hospital Management System

- Python-based database project
- Designed modules for patient, doctor, and record management
- Applied SQL and database normalization concepts

Machine Learning Models

- Lung Disease Prediction
- Crop Yield Prediction
- House Price Prediction
- Cancer Classification

EDUCATION

Bachelor of Software Engineering
NED University of Engineering & Technology, Karachi
Expected Graduation: 2028

ADDITIONAL INTERESTS

- Secure AI Systems
- Cybersecurity Research
- Ethical AI Development
- Software Documentation and System Design