AMNA MUHAMMAD

SOFTWARE ENGINEERING UNDERGRADUATE | ASPIRING FULL-STACK DEVELOPER

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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 (Backend development, ML integration)
- C++ (Data Structures & Algorithms)
- ASP.NET (Web application fundamentals)
- Django & Flask (Backend web frameworks)
- Streamlit (Interactive web apps & dashboards)
- OpenAI API (AI-powered feature integration)

Web Development
- RESTful APIs
- Backend logic & routing
- Authentication & data handling
- Deployment-ready web applications

Databases
- SQL (Queries, joins, normalization)
- Microsoft Access
- Database design & integration with web apps

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

Machine Learning (Supportive Skill)
- Supervised Learning
- Model training & evaluation
- Data preprocessing & analysis

PROJECTS

AI Business Analyst Tool (Streamlit + OpenAI)
- Built an interactive web-based tool using Streamlit
- Integrated OpenAI API to generate insights from business data
- Enabled non-technical users to analyze trends and make decisions
- Focused on usability, clarity, and real-world business value

Zenith – AI-Based Exoplanet Detection
Nasa Space Apps Challenge 2025
- Developed an AI model to detect exoplanets from astronomical datasets
- Worked in a collaborative team with defined development roles
- Local Runner-Up & Global Nominee

Tahaffuz – Local Crime Reporting Application
Pitched at IBA Tech Tank
- Conceptualized a secure web-based application
- Emphasized user privacy, safety, and ethical data handling

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

EDUCATION

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

ADDITIONAL INTERESTS

- Full-Stack Web Development
- Secure & Ethical AI Systems
- Cybersecurity Fundamentals
- Software Design & Documentation