Nelayn Abbas

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Education

FAST NATIONAL UNIVERSITY OF COMPUTING AND EMERGING SCIENCES (3.47)   CFD Campus, Pakistan
Bachelors in Computer Sciences (3.47 CGPA)   August 2021-Present

 Superior Group of Colleges   Faisalabad, Pakistan
Intermediate in Computer Sciences   2019-2021

Honors & Awards

Dean's List
-   *Dean's list in Fall 2021, Spring 2022, Fall 2024*

Blind Coding Competition   2024
-   *Winner of Blind Coding Competition held at DAIRA 23,24, compete with 30+ students.*

FAST Problem-Solving Competition   2023
-   *Top 3 in **FPSC**. Solved about hard problems and finished in top 3, among 10+ teams.*

 International Collegiate Programming Contest   2024
-   *Participated in ICPC 24, 25 an annual multi-tiered competitive programming competition.*

Technical Skills

Programming Language & Tools
-   *C++, Python, C#, Java, Ubuntu, Git, SQL, xampp, postman*

AI Skills
-   *NLP, Ollama, Pandas, TensorFlow, Pytorch, LangChain, llama.cpp, RAG, OpenCV, YOLO*

Web Development
-   *React.js, flask, php, Javascript, Node.js, Express.js, MongoDB, mySQL*

Selected Projects

WisdomWave (LLM-Based Web Application)   *Present*
An AI platform delivering personalized, textbook-based answers to enhance learning and collaboration.
-   *Integrated **Ollama 3B** with **LangChain** and **llama.cpp** for efficient LLM handling, using **React.js** frontend, **Flask** backend, **ChromaDB** for vector storage, and cloud databases like **MongoDB***

TheeKro.com (WebApp)   *Jul 2024*
Your go-to platform for all house repair and assistance needs, connecting you with trusted experts.
-   *Developed the frontend with **React**, and working on the backend with **Node.js** and **MongoDB**.*

Tile Motif Extractor   *Jan 2025*
Motif extractor that detects and extract intricate patterns from tile, bringing automation to design analysis.
-   ***OpenCV** for image processing, **YOLO** for object detection, **FLASK** for backend, and **React** for frontend.*

Secure Payment Gateway   *Nov 2024*
A secure payment gateway system with real-time fraud detection, IP logging, and secure transaction tracking,
-   ***PHP** backend with **Stripe API** integration, **MySQL** database, **HTML/CSS/JavaScript** frontend, **SSL/TLS** security, **PCI DSS** compliance, **XAMPP/WAMP** for development, and **Stripe Radar** for fraud detection.*

Academic Experience

TEACHING ASSISTANCE (TA)   2022
Assisted teachers with courses like **PF, OOP, Data Structure, Algorithms, Artificial Intelligence** etc.
-   *Gained problem-solving and analytic skills by assisting 600+ students and supporting 10+ teachers.*

Extracurricular & Volunteer Experience

FCAP (FAST Club of App Development Society, CFD Campus)   2023-Present
-   ***President** of Society (Leading around 100+ students currently)*

Interests

-   *Machine Learning Enthusiast, Data Science Enthusiast, Web Development.*