

Abdul Rafay Ashfaq

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EXPERIENCE

Machine Learning Intern DevelopersHub Corporation	<i>Jun 2025 – Jul 2025</i>
	<i>Remote</i>
<ul style="list-style-type: none">Engineered conversational AI agents for medical and mental health diagnostics using NLP techniques.Fine-tuned LLMs with HuggingFace Trainer API and constructed Python scripts for real-time user interaction.Executed end-to-end data pipelines, including Exploratory Data Analysis (EDA) and data cleaning, on clinical datasets to identify key features for heart disease classification.Trained regression models for house/stock price forecasting, implementing time-series analysis on preprocessed metrics.	
Web Developer Intern Premier NX	<i>Jun 2025 – Aug 2025</i>
	<i>Lahore, Pakistan On-site</i>
<ul style="list-style-type: none">Architected responsive, user-friendly frontend interfaces for an academic portal utilising PHP Laravel.Implemented full-stack CRUD functionality, ensuring real-time data synchronisation with a MySQL backend.	
Python Developer Intern Softsincs	<i>May 2025 – Jul 2025</i>
	<i>Remote</i>
<ul style="list-style-type: none">Completed comprehensive data science training, mastering Pandas and NumPy for data preprocessing.	

EDUCATION

Bachelor of Science (B.S.) in Computer Science FAST National University of Computer & Emerging Sciences	<i>Aug 2027</i>
	<i>Islamabad, Pakistan</i>
<ul style="list-style-type: none">Coursework: Data Structures, Design & Analysis of Algorithms, Object-Oriented Programming, Computer Networks, Artificial Intelligence, Web Programming, Software Design & Analysis, Information Security	

PROJECTS

Game-Playing Agent for TORCS
<ul style="list-style-type: none">Automated a car racing simulation using PyTorch, integrating a Random Forest Model for autonomous driving behaviour to extract telemetric data.Trained the model on sensor-based input to optimise speed and steering in dynamic racing environments.Implemented real-time decision-making and performance evaluation to enhance accuracy and responsiveness.
Ultimate Tic-Tac-Toe
<ul style="list-style-type: none">Developed a player vs. AI Tic-Tac-Toe game in Python, incorporating the Minimax Algorithm with Alpha-Beta Pruning for efficient decision-making.Applied advanced Constraint Satisfaction Problem (CSP) techniques to enforce game rules and logic.Refined user experience through an interactive GUI, enhancing gameplay realism and competitive challenge.

XONIX

- Created a classic arcade game with modern GUI and gameplay mechanics using C++ with SFML.
- Programmed player movement, enemy AI, and dynamic territory capturing logic using DSA concepts.
- Enhanced user experience with responsive controls, real-time scoring, and engaging visual feedback.

Hospital Management System

- Built a full-stack HMS using React.js for the frontend and Node.js with MongoDB for the backend.
- Implemented secure user authentication and role-based access control using JSON Web Tokens (JWT).
- Developed comprehensive modules for patient management, appointments, and medical records.

SKILLS

Web Development Tools: HTML, CSS, JavaScript, React.js, Node.js, MongoDB, PHP, Laravel

Game Development Tools: Unity, SFML (Simple & Fast Multimedia Library)

Programming Languages: C++, Python, Java, SQL (MySQL), x86 Assembly

CERTIFICATIONS

[Google AI Essentials Specialisation – Google](#) • [Introduction to Artificial Intelligence – University of Illinois Urbana-Champaign](#) • [Introduction to Generative AI for Developers with Copilot – Microsoft](#)