Muhammad Talha

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EDUCATION

NUST School of Electrical Engineering and Computer Science   H-12 Islamabad, Pakistan
Bachelors of Science in Computer Science   *Sept. 2022 – Jun 2026*

SKILLS

Proficient: Database Systems, Web Development (MERN, TypeScript), Algorithm Design
Intermediate: AWS, FireBase, Machine Learning (ML), AI Research and Development
Beginner: DevOps, Data Analytics, NextJs

EXPERIENCE

Parhlai   November 2024 – Present
Backend Developer   *Islamabad*

- Parhlai is an AI-guided solution for mastering university entry tests in Pakistan. Prepare with confidence, ensuring your success with our cutting-edge platform tailored to your needs.
- Qualified for the Hatch 8 (pre-incubation) programme at the National Science & Technology Park, becoming part of Cohort 5. After passing through two stages between May and September

PROJECTS

PakZone   March. 2024 – June. 2024

- A full-stack e-commerce website using the MERN stack (MongoDB, Express.js, React.js, Node.js) to provide seamless shopping experiences with dynamic product listings, user authentication, blogs, product management and more.
- Implemented efficient database queries and state management techniques, ensuring fast load times and a responsive user interface.

SpeakSigns   March. 2023 – June.2023

- An Android app leveraging MediaPipe and Kotlin, trained with machine learning models to recognize and interpret real-time sign language gestures through the camera.
- Aims to bridge communication gaps by translating gestures into meaningful signs, enhancing inclusivity for individuals using sign language.

HealthSphere   Nov. 2023 – January. 2024

- A web-based Hospital Management System built with React, Express, Node, and PostgreSQL to optimize hospital operations and patient-provider communication.
- Features efficient scheduling, patient record handling, and operational workflows to enhance overall healthcare delivery.

BattleShip   Nov. 2024 – Dec. 2024

- A game that utilizes algorithms like minimax, and heuristic-based strategies to play strategically against human opponents.
- The AI analyzes moves, optimizes strategies, and learns patterns by Reinforced Learning through MDP's to provide a challenging experience for players.

Etch a Sketch   July 2024

- A JavaScript-powered web application enabling users to create digital sketches interactively. It demonstrates proficiency in DOM manipulation, event handling, and dynamic UI creation.

EmoScan   Nov. 2024 – Dec. 2024

- A project that uses machine learning models including RF, D-Tress and Logistic Regression to analyze movie reviews for sentiment analysis.
- Leverages cutting-edge ML techniques to interpret the emotionals in movie reviews for real-time sentiment analysis.

ACHIEVEMENTS

1st at TechConnect 2024   November 2024

- *Parhlai*, an AI-powered entry test prepration startup, secured first position at the **TechConnect 2024** competition, organized by FAST. TechConnect promotes social entrepreneurship and the development of innovative solutions that benefit communities and society.

2nd at PitchFest 2024   December 2024

- *Parhlai*, an AI-powered entry test prepration startup, secured second position at the **PitchFest 2024** competition, organized by NUST. PitchFest promotes social entrepreneurship and the development of innovative solutions that benefit communities and society.