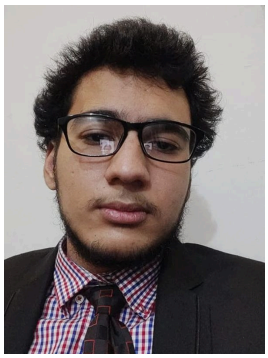
Muhammad Abdullah



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Lahore, Pakistan. 03/04/2003

https://github.com/R4333

https://abdullah-portfolio-gamma.vercel.app/

Profile

Highly motivated and enthusiastic computer science student seeking opportunities in the Tech sector. With a strong foundation in programming languages such as C++, JavaScript, HTML, and CSS, as well as experience with popular frameworks and libraries like Next.js, Express.js, and Node.js, I am eager to contribute my skills to real-world projects and gain valuable industry experience.

Professional Experience

Freelance Web Developer
Full Stack Web Developer
09/2023 - 01/2024 | Lahore, Pakistan
Developed **Indian Runners**, a NEXT.JS based fitness web application.

Coding Pixel
MERN Stack Intern
07/2023 - 08/2023 | Lahore, Pakistan
Worked on frontend for **About Us | JMK (johnniemaeking.com)** website and store.

Education

BACHELOR OF SCIENCE (COMPUTER SCIENCE)
FAST NUCES Lahore
2021 - 2025

A-Levels
LGS Paragon

Maths, Physics, Chemistry, Computer Science.

O-Levels
Laurelbank Public School

Maths, Physics, Chemistry, Computer Science.

Interests

Gaming • Modding • Coding • Radios/RTL-SDR • IoT • SciTech • Silicon Enthusiast

Languages

Urdu • Punjabi • English

Projects

MagarMunch: An Online Food Ordering and Delivery System.
Project for Database Systems Course.

- Uses NEXT.JS with REACT components for Restaurant Website.
- Backend REST API implemented using Node.js, ExpressJS, and MSSQL.

Traffic Simulator
OOP Course Project.

- Implemented using C++, SFML and ImGui.
- Tile based editor to allow users to create custom maps with simulated traffic signals and asscoicted mechanics.
- Implemented path finding using A* algorithm.
- Viewport with zoom scaling.

SMART POS
A NEXTjs based Point of Sale System.
- Implemented with Typescript and TailwindCSS
- Postgres and Drizzle ORM
- Authentication with Lucia

FactFinderLLM
R&D Project to reduce hallucinations in LLM responses on a given dataset using a custom multistage RAG pipeline and model finetuning. Demonstrated on Wikileaks and FOIA request data and Involved creating a Synthetic Dataset using LLMs.

GRPO-MATH LLM.
Qwen 2.5 3B trained using Deepseeks GRPO Reinforcement Learning technique to turn it into a Reasoning model for Math Problems.

Pac-Man in Assembly.
Computer Organization and Assembly Language Course Project.

Implemented in pure x86 NASM assembly with interrupt handlers, custom ISRs and interrupt chaining for hooking timer and keyboard input. Load maps from files and interfaces with video memory.

Simple Simple C Programming Language
Custom Compiler written with FLEX, Bison, and LLVM.
Compiles code to C++ and LLVM IR. Language had many advanced features added to it; mostly for Array manipulation.

Hide Stream
A Steganography Tool.
Lets you hide files in audio files and pictures using several different techniques.

AI-based Subtitle Maker
Uses ffmpeg and Faster-Whisper Speech to Text Model.

Process Scheduling Simulation.
Project for Operating Systems Course.

- Implemented in pure JS, HTML and CSS using Bootstrap and Chart.js libraries.
- Rate Monotonic, and Earliest Deadline First Algorithms.

Skills

C++ • C • JavaScript • CSS • HTML • Python • NEXT.JS • ExpressJS • Node.js • REACT • SQL • MongoDB • Raylib • SFML • ImGui • SDL2 • VSCODE • Visual Studio • MAKE/CMAKE • Linux • WSL • Jupyter Notebook • Docker • Proxmox