

# HAMZA KHAN

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## PORTFOLIO

- ❖ <https://hamzakhan55-portfolio.vercel.app/>

## SKILLS

### ❖ Core Expertise

React JS | Next JS | JavaScript | Python | Flutter | MySQL | Node JS | Typescripts | Tailwind CSS

### ❖ Additional Skills

AI Models Training | Whisper-large-v3 | Distilbert-base-uncased | REST APIs | Zustand | C++ | Git

## EDUCATION

- ❖ BS Computer Science | The University of Swabi

CGPA: 3.11 / 2025

## ACADEMIC PROJECTS

### ❖ Smart Expense Tracker - AI-Powered Finance Manager – FYP

*(Spend. Speak. Save. Smarter)*

An intelligent expense management system that uses AI to simplify personal finance tracking through a home screen widget that lets users record expenses by voice directly from the home screen. It automatically records and categorizes expenses, understands voice commands in English and Urdu, and offers smart insights through machine learning. Built with **FastAPI/Python, Next/Typescript, Flutter, MySQL, Tailwind CSS** it features a custom **DistilBERT model** (90%+ accuracy), **Whisper Large-v3** for voice input, and AI-powered analytics for spending trends and budget forecasts.

### ❖ ByteBattle Quiz App

*(Real-Time Quiz, Instant Buzz, Live Scoring)*

Built a real-time quiz app with an instant buzzer and live scoreboard. Frontend in **React/TypeScript**, backend in **Node/Express** with Socket.IO for real-time play, and a Flask + T5 service that auto-generates MCQs. Includes **JWT** login and an admin dashboard.

### ❖ Game-Hub – Modern Game Discovery Platform

*(Discover Games. Effortlessly)*

A modern game discovery platform with advanced search, filtering, genre and platform categorization, critic ratings, emoji reactions, infinite scroll, responsive design, detailed game pages with routing, and optimized image loading. Built with **React, TypeScript, Vite, Chakra UI, TanStack Query, Zustand, React Router, Framer Motion**, and **Axios**.

### ❖ Simon Game

*(Interactive Memory Challenge)*

Developed a browser-based memory game with random sequence generation, level progression system, button flash animations, score tracking, game state management, and shake animation on game over with automatic restart functionality. Built with **JavaScript, HTML5, CSS3**.

## EXPERIENCE

### ❖ Full Stack Developer | Self-Taught | 2 Years of Experience

Built full-stack web and mobile apps using React.js, Next.js, Flutter, Node.js, and FastAPI. Experienced with MySQL, API development, and AI model integration (Whisper, DistilBERT). Skilled in TypeScript, Python, and responsive UI design using Tailwind CSS and Chakra UI.