

# SYED AHSAN HUSSAIN

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<https://portfolio-three-rust-43.vercel.app/>



<https://github.com/AhsanHussain12?tab=repositories>

## SUMMARY

Computer Science graduate skilled in frontend, backend, and database design and management, with focus on Computer Vision and scalable software systems and Clean and Scalable code

## WORK EXPERIENCE

Software Engineer (Freelance Consultant -[FIVER ] )

Jan 2025-Present

Clinical Research Mate & CTMS SAAS Platform

Tech: React, Node.js, TypeScript, PostgreSQL, MongoDB, Prisma, Azure Blob Storage, BullMQ, Nodemailer, WebSockets

- Developed Clinical Research Mate platform supporting clinical trial coordination and data workflows.
- Built a full-featured CTMS SAAS with real-time trial stage tracking and collaborative budget chat module.
- Created scalable APIs with Node.js, TypeScript, Prisma ORM, and managed data in PostgreSQL and MongoDB.
- Managed background tasks using BullMQ and implemented secure file storage with Azure Blob Storage.
- Designed modular, responsive UI components using React and followed SDLC for timely delivery.

## PROJECTS

DenseVision FYP

2024-2025

- Real-time crowd estimation system using CNN+Transformer for safety/resource planning.
- Trained on 2,000+ noisy low-light images with custom annotation pipeline
- Built multi-threaded processing for low-spec systems
- Research paper under preparation

Teach Mate

- Web platform connecting students with tutors
- Built secure REST API (JWT auth, RBAC, tutor matching),POSTMAN,REACT,NodeJS
- Designed relational schema and implemented UI with React + Prisma

2023

Other Projects

- **Phonebook: Linked List-based CLI tool to manage contacts**
- **Hospital System: OOP-based patient & bed management using file I/O**
- **Los Polos Pizzeria | 2024 – Built a React Native + Firebase app to simplify pizza ordering, beta tested with 15+ users.**

## EDUCATION

Bachelor's Degree in Computer Science (2021 – 2025)

- **Institution: FAST NUCES, Karachi.**

## TECHNICAL SKILLS

- Python, C++, JavaScript, TypeScript, SQL, Node.js, API Dev, React, React Native, Software Design, Algorithms, DB Architecture, OOP, System Design

Soft Skills

- Teamwork, Communication, Leadership, Problem Solving, Project Management, Adaptability

Coursework

- SPM, OOP, SE, DB Design (SQL/NoSQL), AI, DSA, Computer Architecture