

SYED AHSAN HUSSAIN

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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