

# Aimal Asim

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## Professional Summary

Full-stack MERN developer with strong backend and system architecture capabilities. Experienced in building role-based platforms, real-time features with Socket.io, secure REST APIs, analytics modules, and end-to-end deployments using Docker and CapRover. Skilled at reviving legacy codebases, restructuring backend architecture, and delivering scalable, production-ready applications. Focused, reliable, and eager to work on challenging engineering problems.

## Technical Skills

Languages: JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: Node.js, Express.js, React, EJS, Socket.io, React Query

Databases: MongoDB (Mongoose), MySQL

Tools & Platforms: Git, Postman, VSCode, Docker, CapRover, Linux

Other: JWT Auth, MVC Architecture, REST APIs, Real-time Systems, Payment Integrations

## Projects

### **ExamExpert – MERN Full-Stack System (for Blackmode.io)**

A large-scale educational platform built using the MERN stack. Took ownership of the backend from a previous developer and rebuilt critical modules for stability and scalability.

- Rebuilt backend controllers and refactored legacy API logic
- Implemented Socket.io real-time features: notifications, user blocking, activity logging
- Added analytics and action-tracking modules for admins and teachers
- Developed secure, role-based REST APIs using JWT
- Integrated GoPayFast payment gateway
- Connected frontend and backend (React  Node.js)
- Deployed full application using Docker & CapRover on a VPS
- Tech: Node.js, Express, MongoDB, React, React Query, Socket.io, Tailwind, Docker

## **Experience**

Freelance Developer (Remote | Jan 2024 – Present)

- Delivered backend systems using Express.js
- Built authentication systems (JWT & session-based)
- Managed VPS deployments with Docker & Linux setups
- Improved system performance and code quality for client applications

## **Education**

Matriculation – The Kids Campus School

Professional Software Development Course (PSCD) – Baitussalam Tech Park

Currently expanding specialization through real-world freelancing and independent development projects.