Owais Khan | Full-Stack Product Engineer

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Portfolio : [Home | Owais Khan - Full Stack Developer & Creative Technologist](#)

Summary

A product-minded full-stack engineer who scaled a data platform from zero to **1.2M+ clicks** and **28,000+ monthly active users**. With expertise in both MERN and LAMP stacks, I architect and build resilient, data-driven applications that achieve significant organic growth and user engagement. I specialize in backend automation, high-performance APIs, and creating complex, interactive user experiences.

Technical Skills

Languages: JavaScript (ES6+), PHP, Python, HTML5, CSS3
Frontend: React, Three.js (react-three-fiber), Framer Motion, Tailwind CSS, Chart.js
Backend: Node.js, Express.js, Flask, Socket.IO, REST APIs, JWT, Web Scraping
Databases: MongoDB, MySQL, Firebase (Firestore), SQLAlchemy
ML/CV: TensorFlow, Keras, MediaPipe, OpenCV
Tools & DevOps: Git, GitHub, CI/CD (GitHub Actions), Firebase, Vercel, Cron Jobs
Chess Tech: Stockfish Engine Integration, PGN Parsing & Manipulation

Education

- B.Tech in Computer Science & Engineering
  - St. Thomas' College of Engineering & Technology, Kolkata — Aug 2023 – Present
- Full-Stack Web Development (Delta Batch)
  - Apna College — Jun 2023 – Nov 2023

Competitions & Achievements

- **National Finalist (Rank #12) | Odoo Hackathon 2025**
  - Secured a top-250 spot out of 19,000+ participants to qualify for the national finals.
  - Co-developed a full-stack MERN skill-swapping platform featuring real-time notifications and request handling using Socket.IO.
- **JEE Mains 2023:** Top 1.5% out of 1.3M+ candidates (AIR 19,900)
- **WBJEE 2023:** Top 0.3% (AIR 1,290) out of 300K+
- **HackerRank:** Gold Badge (Python)
- **International Mathematics Olympiad:** Silver Medalist

Experience

- **[Kolkata Chess Academy](#) | Lead Full-Stack Engineer | Kolkata, West Bengal (Oct 2024 – Present)**
  - Developed a comprehensive Learning Management System (LMS) and interactive training platform for students, teachers, and administrators.
  - Engineered distinct, role-based dashboards for admins (user management, analytics, tournaments), teachers (quizzes, resources, performance tracking), and students (quizzes, PGN analysis, resources, reports).
  - Built an advanced interactive chess module with a PGN library, Stockfish engine integration, and player-vs-player challenges.
  - Created a secure and scalable LAMP (PHP/MySQL) backend with a RESTful API and role-based access control (RBAC).
  - Designed a flexible, multi-tenant architecture for white-labeling the platform.
- **[Today Egg Rates](#) | Freelance Full-Stack Engineer | Remote (Nov 2023 – Present)**
  - Architected and scaled a full-stack data platform from scratch to 1.2M+ clicks and 28,000+ monthly active users using an automated SEO and content generation engine.
  - Engineered a high-performance LAMP (PHP/MySQL) backend with automated data aggregation (web scraping), advanced multi-layer caching (reducing database load by >90%, API response times <100ms), and a dynamic content pipeline (Google Web Stories, MDX blog posts, sitemaps).
  - Developed a feature-rich React frontend with interactive data visualizations (Chart.js, pan-India price heatmap), dynamic product/city pages for SEO, and an admin panel.
  - Established a CI/CD pipeline using GitHub Actions for automated deployment, build optimization, and 99.9% uptime.
- **DoCoGen | Web Development Intern | Remote (May 2021 – July 2021)**
  - Collaborated on feature development and debugging core components.
  - Refactored components under senior guidance.

Projects

- **Festify (Event Management SaaS Platform)**
  - Founder and lead developer of a full-stack event management platform, architected from the ground up using the **MERN stack** (MongoDB, Express, React, Node.js).
  - Designing and building core features including event creation, team collaboration tools, task management, scheduling, and financial tracking (income/expenses).
  - Engineering a secure authentication system with **JWT** and role-based access control for organizers, staff, and attendees.
- **Real-Time Sign Language Recognition (SIH 2024 Prototype)**
  - Developed a computer vision application that translates Indian Sign Language (ISL) gestures into text in real-time using a webcam feed.
  - Built with Python, leveraging OpenCV for image processing, MediaPipe for hand landmark detection, and a custom-trained TensorFlow/Keras model for gesture classification.
  - Created a Flask-based web interface to stream video and display live predictions, demonstrating a practical application of machine learning for accessibility.
- **Full-Stack Airbnb Clone (MERN)**
  - Developed a full-stack property rental platform featuring CRUD functionality, user authentication with Passport.js, and image uploads via Cloudinary.
  - Integrated Mapbox for geolocation services and implemented a robust review and rating system.
- **Interactive 3D Portfolio (React, Three.js)**
  - Engineered a dynamic personal portfolio using React, Three.js (react-three-fiber), and Framer Motion to create an immersive user experience.
  - Features an interactive 3D skill constellation and a unique persona-based content system that tailors the user journey for different visitor types (e.g., recruiters, clients).