



# SAHIL KHAN

Full Stack Web Developer

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## EXPERIENCE

**Full Stack Web Developer** | CyberDairy Solutions, Sagar, MP Oct'24 – Sept'25

- Engineered scalable web applications handling 10K+ daily requests with optimized REST APIs and database indexing.
- Led development of Infinity College Admission & Counselling System — end-to-end automation of student enrolment, merit processing, and admin dashboards using PHP, MySQL, and JWT-based authentication.
- Collaborated with design, data, and cloud teams to deliver high-performance, enterprise-grade client solutions.
- Implemented CI/CD pipelines and containerized deployments, improving release efficiency and system uptime.
- Collaborating with cross-functional teams delivering enterprise client projects.

**Web Developer Trainee** | CyberDairy Solutions, Sagar, MP Apr'24 – Sept'24

- Completed 6-month intensive training developing 8+ responsive web applications using MERN and WordPress.
- Designed RESTful backend with Node.js/Express with MySQL and MongoDB, improving client engagement by 40%.
- Delivered and deployed 5+ production WordPress solutions via cPanel with DNS and SSL configuration management.

## PROJECTS

**Chat-NCERT** | Next.js, LangChain, OpenAI API, Pinecone, Express.js, MongoDB Jan'25 – Mar'25

- Engineered an AI-driven academic assistant for NCERT-based learning using RAG pipelines and vector search.
- Implemented context-aware chat with dynamic prompt optimization and semantic retrieval for accurate responses.
- Deployed on Vercel with serverless functions, ensuring low-latency inference and scalable performance.

**University Social Network Platform** | React, Node.js, Express, MongoDB, Socket.io Sep'24 – Sep'24

- Developed secure full-stack social platform with JWT authentication, WebSocket-based real-time chat, and RBAC.
- Designed 100+ RESTful API endpoints for posts, comments, and notifications; achieved 95+ Lighthouse performance.

**Student Counselling & Admission Management System** | PHP, MySQL, JWT, MVC Architecture May'24 – Jul'24

- Built role-based admission portal for Infinity College, Sagar, MP with merit ranking and analytics dashboard.
- Implemented modular backend with custom routing, tokenized sessions, and optimized query performance.

**E-Commerce Product Dashboard** | React, Node.js, MySQL, Chart.js Jan'24 – Mar'24

- Developed admin dashboard for 500+ products with advanced CRUD, real-time search, and analytics visualizations.
- Optimized SQL queries and schema normalization to improve data retrieval efficiency by 35%.

## ACHIEVEMENTS

- Competitive Programming: LeetCode **233+** problems solved | Rating **1,597** (Top **23.6%**) | GitHub 1,433 contributions.
- SIH Competition: Participate Got **4<sup>th</sup> Rank** in Inner Round. Work on **PM Internship Portal Allocation System**.
- Reliance Foundation Scholarship (**Jun'23**) - Selected among **top 5,000** nationwide for academic excellence.
- NPTEL Programming in Java - Elite + Topper (**IIT Kharagpur, Jun'24**) - Scored 90+ percentile, **top 5%** nationally.
- Full Stack Web Dev Certification (**CyberDairy Solutions, 2024**) - 200+ hours, "Outstanding Performer" recognition.

## TECHNICAL SKILLS

- Programming & Scripting:** JavaScript, TypeScript, Python, PHP, Java, C++, SQL
- Web & Backend Engineering:** Next.js, Node.js, Express.js, React.js, GraphQL, WebSockets, Microservices
- AI, ML & GenAI Systems:** LangChain, OpenAI API, TensorFlow, PyTorch, Scikit-learn, Vector Databases (Pinecone, Weaviate, Chroma), Prompt Engineering, RAG Pipelines, Model Fine-Tuning & Deployment
- Data & Cloud Infrastructure:** PostgreSQL, MongoDB, Redis, Kafka, Airflow, AWS (Lambda, S3, EC2), GCP, Azure, Docker, Kubernetes, Terraform, Serverless & Edge Computing
- Cybersecurity & DevOps:** Zero-Trust Architecture, API Security, OAuth 2.0, JWT, CI/CD, Container Security
- Modern Computing Paradigms:** Cloud-Native Architecture, MLOps, LLMops, Multi-Cloud Orchestration, Edge AI
- Tools & Workflow:** Git, GitHub, VS Code, Postman, Figma, Docker Compose, Linux Environments
- Core Computer Science:** Algorithms, Data Structures, Operating Systems, Distributed Systems, Computer Networks

## EDUCATION

**B. Tech. in Computer Science and Engineering**  
Dr. Hari Singh Gour Central University, Sagar, MP

**SGPA (6<sup>th</sup>): 8.62 | CGPA: 8.00**  
**Aug'22 – Jul'26**

**12<sup>th</sup> Senior Secondary (XII)**

**89.60% | 2022**

**10<sup>th</sup> Secondary (X)**

**89.25% | 2020**

Govt. Excellence Higher Secondary School, Damoh, MP