

MOHD HAMZAH

Full-Stack Developer · Backend & API Specialist · Mobile & AI Integration

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PROFESSIONAL SUMMARY

Full-stack developer with 3+ years of experience shipping production-grade web, mobile, and AI-powered applications. Proven ability to take projects from zero to deployment across diverse domains including edtech, healthtech, and home services. Strong backend fundamentals in Python/Flask and Node.js, with hands-on mobile development in React Native (Expo) and integration of modern AI APIs. Comfortable owning both the technical architecture and the client relationship.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, PHP, Java, Kotlin, C, C++

Backend: Flask, Node.js, Express.js, REST APIs, Socket.IO, WebRTC

Frontend / Mobile: React Native (Expo), React.js, HTML5, CSS3, Bootstrap, jQuery, Canvas API

Databases: MongoDB, MySQL, Firebase Realtime DB, Microsoft SQL Server

AI / APIs: Groq API (Llama 3.3 70B), Firebase ML

Auth & Security: JWT, bcryptjs, Expo Secure Store, Firebase Authentication, bcrypt

DevOps & Tools: Git, GitHub, Cloudflare R2, WAMP Server, Electron.js

Design: Adobe Photoshop, Lightroom, After Effects, DaVinci Resolve

PROFESSIONAL EXPERIENCE

Back-End Developer · [Ark-Vision Infotech](#) Jan 2023 – Present

Full-time · New Delhi, India · On-site

- Architect and develop RESTful APIs powering web and mobile platforms serving multiple live clients.
- Design secure authentication systems using JWT and Firebase Auth; implement role-based access control across projects.
- Optimise database schemas and queries in MySQL, MongoDB, and Firebase to meet performance targets in production.
- Manage cloud deployment, server configuration, and uptime monitoring; integrate Cloudflare R2 for media storage.
- Lead client engagements end-to-end: requirements, architecture decisions, sprint planning, delivery, and post-launch support.
- Conduct code reviews and establish development workflows to maintain code quality across the team.

Software Engineer · [Unacademy](#) Oct 2024

Part-time · Remote

- Contributed backend development work; identified and patched critical SQL injection vulnerabilities in production systems.
- Worked with C++, Flask, and SQL in a fast-paced engineering environment.

Frontend Developer Intern · [Kanha Infotech](#) Jan 2023

Internship · New Delhi, India

- Completed 6-month internship focused on building responsive, cross-browser UI components using HTML5, CSS3, and JavaScript.

PROJECTS

CycleSyncApp — AI-Powered Menstrual Health Platform May – Jun 2026

Stack: Expo (React Native), TypeScript, Node.js, Express.js, MongoDB, Groq AI (Llama 3.3 70B), JWT

- Built a full-stack cross-platform health app with period/cycle tracking, ovulation prediction, fertility scoring, and pregnancy mode.

- Integrated Groq AI to power a context-aware health assistant; passes anonymised cycle context (phase, predictions, recent symptoms) for personalised responses.
- Developed 14+ screens — smart calendar with colour-coded markers, analytics dashboard with mood/symptom charts, partner sharing via connection codes.
- Secured with JWT auth and Expo Secure Store; supports cloud sync via MongoDB and data export/deletion for privacy compliance.

Heartline — Birthday Surprise Platform *2025*

Stack: Flask, MongoDB, Python, HTML5, CSS3, JavaScript, bcrypt

- Designed and built a multi-page interactive birthday experience platform with a drag-and-drop page builder supporting 6 section types (letters, memories, video, poems, promises, cinematic finales).
- Implemented 5 visual themes, countdown timer reveal, confetti animations, password-protected share links, and mobile-responsive swipe navigation.
- Creator dashboard manages all projects; recipients access via slug URL with no account required — shareable in one tap.

FarhamEdu — Interactive Online Learning Platform *Aug – Sep 2024*

Stack: Flask, Socket.IO, WebRTC, MongoDB, MySQL, JavaScript, HTML5/CSS3

- Engineered a real-time education platform featuring live video streaming (WebRTC), interactive multi-user whiteboard, and live polling with instant results.
- Whiteboard supports pen, highlighter, eraser, shape tools, PDF import, slide management, and real-time sync across all connected participants.
- Role-based access for teachers and students; teachers manage live classes, students enrol and attend. Deployed at edu.farham.store.

Sakura AI — Full-Stack AI Chat Application *Mar – Apr 2026*

Stack: Flask, MongoDB, Groq API, Python, HTML/CSS/JS

- Built a full-stack AI chat application with persistent conversation history, user authentication, and an admin dashboard for managing users and sessions.
- Deployed to production on Ark-Vision infrastructure; live at sakura.arkvisioninfotech.in.

Just Calls — Home Services Platform *Sep 2023 – Ongoing*

Stack: Python, Flask, PHP, MySQL, Java, Kotlin, Firebase, JavaScript, Node.js, Electron.js

- Developed the complete digital stack for a Lucknow-based home services company: public website, Android shopping app, service-booking app, worker mobile app, and admin dashboard.
- Implemented real-time Firebase push notifications, live cart/order management, appointment scheduling, and partner training credit system.
- Platform live at justcalls.co.in and web.justcalls.co.in.

Data Recovery Tool *Apr 2026*

Stack: Flask, Python

- Built a Flask web application for recovering files from SD cards with date-range filtering, drag-and-drop file selection, and download management.

Ark-Vision Infotech Website *Jul – Aug 2024*

Stack: HTML5, CSS3, JavaScript, PHP, MySQL, Python

- Designed and developed the official company website with responsive UI, dynamic backend content management, and real-time interactive elements. Live at arkvision.online.

Oracle Public School — Management Software

Stack: .NET Framework, Microsoft SQL Server, C#

- Created a desktop school management system covering student records, fee tracking, attendance, and report generation for administrative staff.

EDUCATION

B.C.A. — Computer Applications *2021 – 2024*

[Jamia Hamdard, New Delhi](#)

CERTIFICATIONS

- Full-Stack Web Development with Python & Flask
- Real-Time Communication with WebRTC and Socket.IO
- Firebase Application Development