

# Keshav Sharma

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## EDUCATION

**Dr. A.P.J. Abdul Kalam Technical University**  
Bachelor of Technology in Computer Science

**Lucknow, UP**  
2023-2027

## SUMMARY

Developed strong organizational and communication skills in collaborative and fast-paced environment. Proven ability to manage multiple tasks, meet deadlines, and contribute to team objectives. Seeking to transition into new field, utilizing transferrable skills to drive success in diverse professional setting.

## LANGUAGE

C++

TYPESCRIPT

CSS

JAVASCRIPT

HTML

GO

## SKILLS

### Backend & APIs

- Node.js, Express.js, gRPC
- REST API design, Authentication (JWT, crypt), Zod validation

### Databases & Storage

- PostgreSQL, MongoDB, Redis
- S3 (object storage)

### Messaging & Event-Driven Systems

- Kafka, RabbitMQ
- Redis (Pub Sub)

### DevOps & Deployment

- Docker, Docker Compose, Kubernetes
- Render, Vercel, Terraform (infra basics)
- Linux command line, Git/GitHub (version control)

### Monitoring & Logging

- Prometheus, Grafana

## EXPERIENCE

**Intern**, 09/25 - Current (Remote)

**ClinixSphere** - Gurgaon, Haryana

- Built and maintained **v2 backend API routes** to enable secure communication between doctors and patients.
- Debugged and optimized **v1 routes**, improving API reliability and reducing response errors.

- Implemented **Zod schema validation** to enforce strong data integrity across backend endpoints.
- Contributed to **frontend modules** by integrating APIs and enhancing doctor–patient communication flows.
- Fixed UI bugs and improved **frontend responsiveness**, ensuring smoother user experience.
- Collaborated with the team in an **agile environment**, participating in code reviews and feature discussions.

## PROJECTS

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### 1. **DoctorPatient** (*Sep 2025*) - [\[Live\]](#)

Tech: **TypeScript, Express, React, PostgreSQL, Prisma ORM, JWT, Bcrypt, Zod, ShadCn UI, Recoil, Framer Motion, Docker**

Deployment: **Backend** ([Render](#)) | **Frontend** ([Vercel](#))

- Designed and implemented REST APIs (Authentication, Doctors, Appointments, Prescriptions) using Express, PostgreSQL, and Prisma ORM.
- Secured application with **JWT authentication, bcrypt password hashing, protected routes**, and role-based access control.
- Applied **Zod validation** to enforce strict data integrity and prevent invalid requests.
- Built and deployed a **responsive React frontend** with Recoil state management, ShadCn UI components, and Framer Motion animations.
- Containerized services with **Docker** and deployed on **Render (backend)** and **Vercel (frontend)** for production.

[\[LINK\]](#)

### 2. **Secure Auth OTP System** (*Aug 2025*) -

Tech: **TypeScript, Node.js, Express, PostgreSQL, Redis, Prisma, JWT, Bcrypt**

- Built OTP-based authentication system with Redis for secure in-memory validation.
- Secured sessions using JWT + Bcrypt password hashing.
- Production-ready backend architecture with PostgreSQL + Prisma.

[\[LINK\]](#)

### 3. **Social Media Microservices** (*Ongoing*)

Tech: **TypeScript, Node.js, Express, PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ, Docker, Kubernetes, gRPC, S3, Prometheus, Grafana**

- Architecting a distributed backend using microservices for Auth, User, Post, Feed, Chat, Video and Voice Call, and Notification services.
- Implemented **API Gateway (NGINX)** with JWT validation, rate limiting, and internal routing.
- Integrated **Kafka** and **RabbitMQ** for event-driven communication and feed fan-out mechanisms.
- Managing structured data in **Postgres**, flexible content in **MongoDB**, caching & presence with **Redis**, and media storage in **Cloudinary**.
- Building feed generation via **Kafka fan-out** architecture for scalable user timelines.
- Containerizing services with **Docker** and deploying on **Kubernetes**, with infra automation via **Terraform**.
- Implementing **observability stack** using Prometheus, Grafana, and ELK for monitoring and logging.

[\[LINK\]](#)

## ADDITIONAL

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Tech Club Leader, Organized and conducted sessions & workshops on Node.js, TypeScript, Git, and Docker. DSA Practice, Consistently solving problems in a pattern-wise manner (Subarrays, Hashing, Binary Search, Recursion, etc.) to strengthen problem-solving skills.

Open Source, Contributed to GitHub projects and collaborated effectively in team workflows.