SHVET GHARE

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SUMMARY

Backend-focused engineer whose expertise is primarily backend oriented, with a solid background in distributed computing, concurrency control, and fault tolerance. Thinks of software as a science that requires correctness, robustness, and architectural rationale over a fast fix approach. Has experience designing, developing, and deploying software from its initial design to final deployment. Combines my academic background with project experience and has applied research methodology to the documentation and reasoning behind design choices. Is quick at picking up new technology, works well in teams, and has led project teams through completion of projects successfully.

SKILLS

Languages: JavaScript, Java, Python, C
Frameworks & Libraries: Node.js, React.js, Next.js, Express.js, Spring Boot, FastAPI, LangChain
Databases & Messaging: MongoDB, PostgreSQL, Redis, Apache Kafka
Cloud & DevOps: AWS (EC2, S3, IAM, Route 53), Docker, Kubernetes, Google Cloud Storage, GitHub Actions, Prometheus, Grafana, Zipkin
APIs & Auth: RESTful API Design, JWT, Google OAuth (Passport.js), HMAC-SHA256, Razorpay
Tools: Git, GitHub, Postman, Maven, FFmpeg (WebAssembly), n8n, Lua scripting

EXPERIENCE

Full-Stack Developer & Project Lead — EduAble *Feb 2026 – Present*

Accessibility-First LMS · Next.js, Node.js, MongoDB, FFmpeg, n8n, Google Cloud Storage

- Reduced caption setup time by approximately 80% by engineering an automated pipeline — n8n webhooks + FFmpeg — that extracts audio and generates SRT subtitle files on every upload, eliminating all manual captioning effort.
- Designed and deployed a full-stack LMS serving students across 3 disability categories (visual, hearing, cognitive), featuring accessible video streaming, AI-generated transcripts, and JWT-secured authentication — reducing content accessibility barriers for 100+ users.
- Awarded 1st Place at CODE AUTOMATA VER. 2.0 (CSMIT Panvel) among 20+ competing teams, recognized for technical innovation in AI-driven accessibility and real-world social impact.

PROJECTS

Medicore — Self-Healing Microservices Architecture with ML-Driven Anomaly Detection (In Development) | [Github] *2026 – Present*

Kubernetes, Apache Kafka, Prometheus, Python

- Building a self-healing microservices platform for a hospital system on Kubernetes, with Kafka event streaming and Prometheus monitoring; implemented the admin and clinical services and designed an automated control loop for failure detection and remediation.
- Developed a Python ML anomaly-detection module for service metrics; planning chaos-testing-based resilience validation, with the architecture documented in a research paper.

Ticketizer — Distributed High-Concurrency Booking Engine | [Github] *Jun 2026 – Present*

Java 21, Spring Boot, Next.js 15, Redis, Apache Kafka, PostgreSQL

- Architected a distributed seating reservation engine by decoupling volatile state from persistent storage; leveraged Redis with atomic Lua scripts to enforce single-threaded locking, achieving zero-overselling across 10,000+ simultaneous booking requests.
- Engineered an asynchronous Kafka event pipeline absorbing burst write spikes of 10,000+ events/second, maintaining 100% PostgreSQL uptime under peak load; secured all payment webhooks with HMAC-SHA256 cryptographic validation, eliminating replay attack vectors.

Atlas — Inventory & Supply Chain Microservices Platform | [Github] *Apr 2026 – May 2026*

Java, Spring Boot, Apache Kafka, PostgreSQL, Docker, Zipkin, Prometheus, Grafana, GitHub Actions

- Engineered 5 microservices (API Gateway, Identity, Inventory, Order, AI Optimizer) implementing the SAGA pattern, Kafka multi-broker high availability, and Optimistic Locking for distributed transaction consistency.
- Established end-to-end observability across all 5 services — distributed tracing via Zipkin, metrics via Prometheus/Grafana — cutting mean debug time; automated deployments via GitHub Actions CI/CD with Docker containerization; authored a research paper documenting SAGA-pattern architecture decisions.

Sonance — Keyless Cinematic Desktop Music Player | [GitHub] *Oct 2026*

Java 21, Spring Boot, React, TypeScript, Electron, SQLite

- Built a Windows desktop music player with a Java 21 Spring Boot backend that streams audio without API keys, using an HTTP Range proxy for seeking and automatic stream URL recovery with a yt-dlp fallback, secured by a random 256-bit local token generated on every launch.
- Implemented Spotify and YouTube playlist import with real-time SSE progress and a fuzzy-scoring song matcher, plus synced lyrics and persistent app state in SQLite with Flyway migrations.

EDUCATION

Bachelor of Engineering — Computer Engineering *Aug 2023 – Present*

Universal College of Engineering, Mumbai

- SGPA: 9.39 / 10.0 — Top 5–10% of cohort

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate | Udemy | 2024
- AWS Cloud Practitioner Essentials | Amazon Web Services (AWS) | 2024
- The Complete Node.js Bootcamp (Backend Bootcamp) | Udemy | 2024
- Ultimate React Course | Udemy | 2024
- Intro to Docker | Udemy | 2025
- MongoDB Basics | MongoDB University | 2024

LEADERSHIP & AWARDS

- Hackathons — CODE AUTOMATA VER. 2.0, CSMIT Panvel (1st Place, 20+ teams), NEXTHACK 2.0 IITM JANAKPURI, DELHI (5th Place, 500+ teams)
- Cultural Secretary — College Student Council, Universal College of Engineering
- Languages: English, Marathi, Hindi, Japanese (Learning)