

# SHASHANK

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## EXPERIENCE

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### Software Developer StockTutor

May 2024 – Present  
*Gurugram, Haryana*

- Engineered an **end-to-end virtual trading ecosystem**, integrating live **NSE/BSE** market data using **Kite Connect** and **Upstox API**, improving trade execution efficiency by **35%**.
- Architected a **low-latency WebSocket pipeline** for real-time stock watchlists, reducing update lag by **50%**.
- Developed a **LiveKit-powered webinar suite**, enabling seamless real-time communication, screen sharing, and chat, boosting user engagement by **40%**.
- Automated **Zoom meeting orchestration** using API-driven scheduling, streamlining session handling for 500+ users per week.
- Integrated **Grafana observability dashboards** for monitoring system KPIs, reducing downtime incidents by **45%**.
- Implemented **Kafka-driven event streaming**, enhancing scalability and optimizing data consistency across microservices.

### Assistant Developer EasyLauncher Pvt. Ltd.

Sep 2023 – May 2024  
*Remote*

- Spearheaded backend performance optimizations in **Node.js**, improving API response times by **30%**.
- Automated test coverage with **Selenium-driven CI pipelines**, increasing software reliability by **25%**.
- Optimized distributed job processing via **BullMQ**, enhancing task execution efficiency by **40%**.
- Orchestrated scalable **Dockerized deployments** on **AWS EC2**, ensuring high availability and failover resilience.

## PROJECTS

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**StockTutor Trading Engine** – Designed a **high-performance trading platform** with **real-time order book**, **WebSocket-powered live quotes**, and **AI-driven market analytics**, increasing trade accuracy by **35%**.

**Live Streaming Webinar Suite** – Developed a **scalable video conferencing** application leveraging **LiveKit**, achieving sub-200ms latency and optimizing video compression for **seamless HD streaming**.

**Smart Email Campaign Analytics** – Engineered a **real-time email tracking system** with user segmentation, click-through analysis, and **dynamic A/B testing**, increasing campaign engagement by **40%**.

**MentLabz Assessment Platform** – Built a **microservices-driven online assessment suite** with **Razorpay-integrated secure payments** and **AI-powered grading**, boosting system efficiency by **25%**. ([Try it here](#))

## TECHNICAL SKILLS

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**Programming:** Node.js, Express.js, React.js, Next.js, Redux Toolkit, TypeScript, WebSockets, Selenium

**Databases:** MongoDB, PostgreSQL, MySQL, Redis

**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Grafana, Kubernetes, Kafka, BullMQ

**Frameworks & APIs:** Kite Connect API, Upstox API, LiveKit, REST APIs, GraphQL

**Other:** Event-Driven Microservices, CI/CD Pipelines, Distributed Systems, Agile Development, Team Leadership

## PERSONALITY TRAITS

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**Leadership:** Proven ability to lead cross-functional teams and manage high-stakes technical projects.

**Problem-Solving:** Analytical thinker with a strong grasp of algorithmic optimizations and system design.

**Adaptability:** Thrives in fast-paced environments, quickly adapting to new technologies and business needs.

**Innovation:** Passion for building cutting-edge software solutions and automating workflows for maximum efficiency.

**Collaboration:** Strong communicator and team player, bridging the gap between technical and non-technical stakeholders.

**Continuous Learning:** Committed to self-improvement, regularly exploring emerging technologies and best practices.

## EDUCATION

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<b>Bachelor of Technology (B.Tech) - Computer Science</b> <b>GLA University, India</b>	2020 – 2024
<b>Class 12th - Intermediate</b>	2019 – 2020