

# Kushagra Gupta

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## EXPERIENCE

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### Software Development Engineer - I

Dec 2023 – Present

*Reliance JIO Platforms Limited*

*Mumbai, India*

- Led optimization of a large-scale reporting system processing **2 billion+ daily records** by leveraging AI-assisted development tools (**Cursor**) to refactor data pipelines, optimize memory usage, and automate archival workflows, improving throughput by **40%**.
- Improved Redis connection management by eliminating redundant client sessions, increasing connection efficiency by approximately **78%** and enhancing system stability.
- Implemented real-time data synchronization between **Elasticsearch** and **Redis**, reducing processing latency by **30%** and strengthening observability with **Prometheus** and **Grafana**.
- Contributed to the migration of two production sites (8–10 VMs each, 10 instances per VM handling SMS traffic) from **Azure Cloud** to **Jio Business Cloud**, increasing scalability and operational reliability.
- Integrated generative AI to auto-generate comprehensive unit and end-to-end test cases, reducing manual effort and accelerating regression validation within CI/CD pipelines.
- Engineered internal monitoring dashboards using **ReactJS** for REST-based services, enabling dynamic consumer control and reducing mean time to recovery (MTTR) by **35%**.
- Designed and implemented modular **ReactJS** components with reusable state management patterns, improving dashboard responsiveness and maintainability across multiple internal tools.

### DevOps Intern

May 2022 – Jul 2022

*Celebal Technologies*

*Jaipur, India*

- Automated deployment pipelines for static websites on **Azure** using **CI/CD** and **Docker**, reducing manual work by **70%**.

## TECHNICAL SKILLS

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**Languages:** SQL, JavaScript, TypeScript, Python

**Frameworks & Libraries:** Node.js, Express.js, FastAPI, React, Next.js, Angular, Vite

**Databases & Streaming:** MySQL, MongoDB, Redis, Apache Druid, Elasticsearch, Kafka

**Tools & Technologies:** Azure, Docker, NGINX, Linux, Grafana, Postman, Git, GitLens, Cursor, Claude, GitHub Copilot

**Core Concepts:** REST APIs, Microservices, ETL/Data Pipelines, Distributed Systems, Scalability

**Certifications:** Microsoft AI Fundamentals, Cisco Networking Academy Introduction to IoT

## PROJECTS

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### DeFi Application | *Blockchain, Smart Contracts, ReactJS, Web3*

- Created a decentralized finance app enabling **Ethereum and Testnet transfers globally**, increasing blockchain accessibility for **200+ users**.

### NFT Marketplace UI | *React Native, Expo CLI*

- Designed a mobile-first NFT marketplace with real-time metadata rendering, improving user engagement and asset visibility by **40%**.

### Conference Meeting App | *Agora, ReactJS, WebRTC*

- Devised a full-stack video conferencing platform featuring real-time polls, granular access control, and WebRTC support for **100+ users**.

## EDUCATION

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### Rajasthan Technical University

Jaipur, India

*Bachelor of Technology in Computer Science and Engineering*

*Aug 2019 – Jul 2023*

## ACHIEVEMENTS

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**Smart India Hackathon 2022 – Finalist:** Developed an offline DBT portal for delivering remote scholarship benefits, organized by Govt. of India.

**Best Final Year Project:** Built a decentralized finance solution enabling global Ethereum and Testnet transfers using Web3 technologies.