

# Vishal Nishad

+91 63537 78872

[vishalni2004@gmail.com](mailto:vishalni2004@gmail.com)

[linkedin.com/in/vishal-nishad-03a690229](https://www.linkedin.com/in/vishal-nishad-03a690229)



[github.com/MrSanito](https://github.com/MrSanito)

## Education

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### Maharaja Sayajirao University of Baroda

Vadodara, India

*Bachelor of Commerce (B.Com)*

- **Relevant Coursework:** Business Management, Accounting, Economics, Statistics

### Chandigarh University

Punjab, India

*Master of Computer Applications (MCA)*

- **Relevant Coursework:** Data Structures, Operating Systems, Database Systems, Software Engineering

## Experience

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### Concentrix Daksh

*Customer Support Associate – Amazon Process*

- Handled high-volume customer interactions, resolving queries efficiently while maintaining service quality standards.
- Maintained detailed issue documentation and ensured timely escalation of complex cases.
- Demonstrated strong communication and problem-solving skills in fast-paced support environments.

### AIS Infosource

*Financial Analyst*

- Analyzed financial data and prepared structured reports to support business decision-making.
- Performed data validation and accuracy checks to ensure reliability of financial records.
- Worked with spreadsheets and analytical tools to identify trends and insights.

## Projects

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### Real-Time Quiz Platform | *Next.js, Turborepo, Node.js, Express, PostgreSQL, Prisma, Redis, Socket.io, BullMQ, JWT, Axios, TypeScript*

- Engineered a scalable real-time quiz system supporting concurrent users in live rooms with synchronized timers, questions, and leaderboards.
- Architected a Turborepo-based monorepo with modular services and shared packages for database, Redis, and type-safe utilities.
- Developed separate HTTP and WebSocket servers for optimized request handling and real-time event processing.
- Implemented event-driven communication using Socket.io to process answers and broadcast live score updates instantly.
- Built asynchronous job pipelines using BullMQ and Redis to ensure reliable score persistence under concurrent load.
- Integrated PostgreSQL with Prisma ORM for structured persistence and optimized queries for performance.
- Designed secure authentication using JWT, bcrypt hashing, cookie parsing, and protected API routes.
- Configured strict TypeScript architecture and modular service structure to improve maintainability and prevent runtime failures.

## Technical Skills

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**Languages:** TypeScript, JavaScript, SQL

**Frameworks & Libraries:** Next.js, React.js, Express.js, Socket.io

**Databases & ORMs:** PostgreSQL, Prisma, Redis

**Tools & Platforms:** Turborepo, BullMQ, Node.js, Axios, Git, Postman

**Concepts:** Real-time Systems, REST APIs, Authentication (JWT), Monorepo Architecture, Event-driven Systems, Asynchronous Processing