

# Utkarsh Singh

📍 Apex Alphabet, Greater Noida, Uttar Pradesh, India

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## WORK EXPERIENCE

### Mindnerves Technology

February 2025 - December 2025

*Software Engineer*

*Pune, Maharashtra, India*

- Engineered back-end modules for SmoochBox, a US-based food delivery app similar to Zomato and Swiggy, focusing on location-based restaurant discovery and real-time order tracking.
- Optimized RESTful APIs for menu, cart, and checkout operations, reducing API latency by 35% through efficient query design and caching.
- Integrated geolocation-based search to improve restaurant discovery and delivery accuracy across regions.

### SVAM International Inc.

May 2024 - January 2025

*Software Engineer*

*Noida, Uttar Pradesh, India*

- Developed backend services using the MERN stack for a US-based event discovery platform, enabling seamless show listings, ticket purchasing, and venue management.
- Improved database performance by refactoring queries and indexes, reducing API response time by 40%.
- Diagnosed and resolved API failures and data inconsistency issues, increasing platform stability by 30%.

## EDUCATION

### Babu Banarasi Das Northern India Institute of Technology

Lucknow, India

*Bachelor of Technology in Information Technology*

*July 2020 – June 2024*

## ACADEMIC PROJECTS

### Scalable E-commerce Microservices Platform | Node.js, Express.js, PostgreSQL, RabbitMQ, AWS ECS

- Developed a microservices-based e-commerce backend with independent Product, Order, Cart, and Payment services communicating over RabbitMQ.
- Designed scalable REST APIs with PostgreSQL connection pooling and Redis caching, improving API performance and reducing latency.
- Implemented secure authentication and role-based authorization with JWT to manage user access and protect data.

### Real-Time Chat & Notification System | Node.js, WebSockets, Redis Pub/Sub, JavaScript, AWS Lambda, SQS

- Built a real-time chat backend supporting messaging, presence, and typing indicators with secure WebSocket (JWT) authentication.
- Implemented Redis Pub/Sub for horizontal scaling and message synchronization across multiple chat server instances.
- Created an asynchronous notification workflow using AWS SQS + Lambda for offline alerts, delivery receipts, and automated processing.

### Food Ordering & Delivery Backend | Node.js, JavaScript, PostgreSQL, Redis, Docker, AWS Lambda, SQS

- Designed a scalable backend for a Zomato-like food ordering system with services for Restaurants, Menu, Orders, Delivery, and User Management using Node.js, TypeScript, and PostgreSQL.
- Implemented asynchronous workflows using AWS SQS + Lambda for order status updates, restaurant notifications, and delivery assignment, reducing latency during peak load.
- Used Redis caching to speed up frequent restaurant/menu lookups and deployed all services with Docker + CI/CD pipelines for smooth delivery.

## TECHNICAL SKILLS

**Languages:** C++, JavaScript (ES6+)

**Backend:** Node.js, Express.js, REST APIs, JWT, Mongoose, Prisma/Sequelize (basic)

**Databases:** MongoDB, MySQL, Redis

**DevOps:** Docker, Git, GitHub Actions, Postman, Nginx, CI/CD Pipelines

**Messaging:** RabbitMQ, Redis Pub/Sub, Event-driven architecture

**Cloud:** AWS (EC2, S3, Lambda, SQS)

**Tools/Other:** Swagger/OpenAPI, Jest/Supertest (basic testing)

**Concepts:** Microservices, System Design, Caching, Scalability Patterns