

# Amey Gupta

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## Education

**Indian Institute of Information Technology Sonapat**  
Bachelor of Technology in Information Technology- CGPA: 8.5/10

*December 2020–July 2024*

## Technical Skills

**Languages:** C++, C, Javascript (ES6), Typescript, SQL

**Libraries/Frameworks:** Node JS, Nest JS, React JS, Express JS, Redux

**Database and Tools:** MongoDB, MySQL, DynamoDB, Git, Redis, AWS (EC2, S3, Lambda, SQS), Jira

## Experience

### Software Engineer Intern

*The Sleep Company*

*Mumbai, (on-site)*

*Sept 2024 – Feb 2025*

- Migrated the notification service to a complete server configuration, cutting API latency from **105 to 15 ms** and improving performance.
- Designed **Role-Base-Access (RBAC)** for API-level access in the POS system using Redis for permission caching and JWT auth, boosting **efficiency by 40%**.
- Built an AWS API Gateway to trigger quote-expiry actions, boosting sales by **8%** via timely lead generation.
- Developed **pagination** for DynamoDB queries, improving data retrieval speed and efficiency by 100x.
- Implemented **error handling, logging, and performance monitoring** to enhance system efficiency and stability.
- **Tech Stack and tools:** MongoDB, DynamoDB, Redis, Node.js, Express.js, React.js, Nest.js, Git, Jira

### Full stack Intern

*The NullClass*

*Remote*

*Jan 2024 – May 2024*

- Built a modular front-end and landing pages using **ReactJS**, emphasizing a user-friendly interface.
- Built **RESTful APIs** in Agile, streamlining data flow for smooth front- and back-end integration.
- **Tech Stack and tools:** MongoDB, Node.js, Express.js, React.js, Git.

## Projects

**Talk-A-tive** | JavaScript, React JS, Node JS, Express, MongoDB, WebSocket | 🌐 📁

- Built a real-time social platform with **WebSockets**, supporting one-on-one and group chats.
- Implemented features such as friend search, media sharing, group creation, and real-time notifications.
- Built robust RESTful APIs with Node.js/Express using **MVC architecture** for low-latency scalable systems.
- Fuzzy matching search functionality to help users quickly find friends and group chats.

**Easy-ticketing** | TypeScript, Node JS, Express, MongoDB | 🌐 📁

- Built a back-end ticketing system REST API for efficient customer support ticket management.
- Ticket Management, Agent Assignment, Reassignment, Comments, Real-time Updates, Email Notifications.
- Define secure authentication and access control mechanisms using (**JWT**) and **Role-Based Access Control**.
- Using **Docker** for seamless deployment and performing a thorough testing with **Jest** for reliability.

**ReqLimiter** | TypeScript, Nest JS, Redis | 🌐

- Developed with **NestJS-style architecture** with modular services, Redis client integration, and health checks
- Integrated **Redis Lua scripts** for atomic operations like request tracking, abuse detection, and IP banning.
- Enabled **dynamic abuse control** by tracking violator thresholds and applying temporary bans.
- Wrote **unit and integration tests** using Jest to validate rate limiting, ban logic, and Redis operations.

## Achievements

- Solved more than 400 questions on [Leetcode](#) 📁 Contest Rating 1500+
- AWS Cloud Quest: Cloud Practitioner Certified. [Link](#) 📁