

# Ayush Dubey

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## Skills

Full Stack Development, React.js, Node.js, JavaScript, TypeScript, Express.js, Redux Toolkit, Tailwind CSS, Socket.IO, WebRTC, MongoDB, MySQL, PostgreSQL, Docker, Redis, RESTful API Development, Server-Sent Events (SSE), Material-UI (MUI), ShadCN, EJS, Cloudinary, WATI, BullMQ, Git, GitHub, Agile Methodologies, Microservices, CI/CD, HTML5, CSS3, Data Structures, Algorithms, Software Engineering, Cloud Computing, DevOps, AWS, Problem Solving

## Experience

### Full Stack Developer

Jul 2024 – Present

- Built image embedding system using MobileNet and Qdrant with MySQL integration, improving search accuracy by 30%.
- Developed real-time notification system with Server-Sent Events (SSE), increasing user engagement.
- Created dynamic alert system using Firebase Admin SDK, enhancing operational efficiency.
- Implemented low-latency chat system with short polling and Nodemailer, improving client-admin communication.
- Designed queuing system with Redis and BullMQ for high-volume task processing, reducing delays by 40%.
- Set up secure MySQL backups using SSH2 and Google Drive API, ensuring data integrity.
- Integrated WATI and Elfsight APIs to enhance platform features and functionality.
- Optimized backend performance with Redis caching and rate limiting for high-traffic scalability.
- Configured VPS for MongoDB and automated tasks with cron jobs for operational reliability.
- Led PHP-to-Node.js server migration, achieving 400x efficiency and 200% performance improvement.
- Developed 500+ RESTful APIs for Android/iOS apps, enabling seamless mobile integration.
- Designed 4 MIS dashboards with real-time analytics for data-driven decision-making.

### NextGen Techno Ventures Pvt Ltd

Jan 2024 – May 2024

MERN Stack Developer

- Built dynamic admin dashboards with React, Node.js, and RESTful APIs, supporting Excel uploads and real-time graphs.
- Improved UX with interactive charts and advanced search features, boosting efficiency by 25%.
- Designed responsive interfaces for real estate and fintech management, ensuring cross-browser compatibility.
- Developed backend APIs for complex database operations and data uploads via Excel files.
- Implemented data export features with sorting, filtering, and dynamic graphs for trend analysis.
- Created scalable dashboard systems using MERN stack, streamlining administrative workflows.

## Education

### Guru Nanak Khalsa College, Matunga

Bachelor of Science in Computer Science

2020 – 2023

CGPA: 9.24/10

## Projects

### Chatsphere – Real-Time Communication App

chat-frontend-beige-seven.vercel.app

- Developed secure JWT-based authentication system for scalable user access.
- Implemented real-time messaging and group chat using Socket.IO.
- Deployed WebRTC with Coturn server on VPS for high-quality video calls.
- Automated status updates with node-cron, running every 15 minutes.
- Integrated Nodemailer for email verification, improving onboarding efficiency.
- Built responsive UI with React, Tailwind CSS, and Tanstack Query.
- Managed PostgreSQL database with Knex for optimized data operations.