

Aman Prasad

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EDUCATION

Brainware University

B.Tech in Computer Science and Engineering; CGPA: 7.5/10

Kolkata, India

July 2023 – July 2027

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript, Java, Python
Backend: Node.js, Express.js, Apache Kafka, Spring Boot
Frontend: React.js, Next.js, Redux, Tailwind CSS, SASS
Databases: PostgreSQL, MySQL, MongoDB, Redis
Tools & Cloud: Docker, AWS (EC2, S3), Git, GitHub Actions (CI/CD)

PROJECTS

EventChat | Real-Time Event Management & Communication Platform

- **Links:** eventchat.amanprasad.xyz | github.com/aman-prasad1/event-chat
Tech Stack: React, Node.js, Express.js, PostgreSQL, Redis, Apache Kafka, Socket.io, Docker, Microservices, EC2, S3
- Architected the platform using a microservices-based design, splitting core functionalities (auth, user, chat) into independently deployable services.
- Set up CI/CD pipelines with GitHub Actions for automated build, test, and deployment.
- Implemented JWT-based authentication with group-level role-based access control, where group admins manage membership and settings.
- Enabled real-time messaging with Socket.io (sub-100ms latency) and integrated Apache Kafka for asynchronous, event-driven communication between services.
- Designed a normalized PostgreSQL schema across 8+ relational tables (users, events, registrations, chats) to ensure data integrity at scale.
- Reduced average API response time by 40% by introducing a Redis caching layer for frequently accessed endpoints.
- Enabled users to share files and images within chat conversations via AWS S3 storage, and containerized the application with Docker for deployment on AWS EC2.

Zentra | Full-Stack E-Commerce Platform

- **Links:** zentra.amanprasad.xyz | github.com/aman-prasad1/zentra
Tech Stack: React, Node.js, Express.js, MongoDB, Redis, Razorpay
- Developed an end-to-end e-commerce platform with 25+ REST API endpoints covering authentication, product catalog, cart, and order management.
- Integrated JWT authentication with OTP-based verification, strengthening account security across the signup and login flow.
- Implemented Razorpay payment gateway, enabling secure end-to-end checkout for online transactions.
- Reduced average backend response time by 35% by introducing Redis caching for product and catalog queries.
- Designed a MongoDB schema covering users, products, and orders, and implemented automated email notifications for order updates.

Video Compressor | Video Transcoding Microservice

- **Link:** github.com/aman-prasad1/Video-Compressor
Tech Stack: Node.js, Express.js, FFmpeg, Multer, Cloudinary
- Built a backend microservice to compress and transcode video files using FFmpeg, reducing file sizes by up to 60% while preserving visual quality.
- Designed an asynchronous job queue to handle multiple concurrent compression requests without blocking the main API thread.
- Handled file uploads with Multer and integrated Cloudinary for storage and delivery of processed video files.

ACHIEVEMENTS

LeetCode rating of **1707**, ranking in the **top 13%** globally

Secured **3rd** position in **DevInnov8+** Hackathon

Solved **1000+** DSA problems on LeetCode