

Ayush Sawant

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Skills

Languages: C++, JavaScript, TypeScript, SQL

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, Socket.IO, REST APIs

Databases & Messaging: PostgreSQL, MongoDB, Prisma, Drizzle ORM, Apache Kafka, KafkaJS

Tools & Concepts: Git, Docker, Postman, Vercel, Supabase, Data Structure and Algorithm, Object Oriented Programming, Database Design, Event-Driven Architecture

Education

Dr. D. Y. Patil Institute of Technology, Pimpri, Pune

Aug 2024 - Jun 2028

B.E. in Artificial Intelligence and Data Science

CGPA: 8.77/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Advance Data Structures and Algorithms, Artificial Intelligence, Data Science

Project Work

- **Atten-Dance:** [Live Demo] Built and deployed a production attendance analytics platform using React, TypeScript, Express.js, PostgreSQL, Drizzle ORM, and Better Auth, with 15+ active users and 700+ attendance records in its first month. Designed normalized relational data models and implemented Google OAuth, attendance analytics, skip-limit calculations, recovery planning, and scenario-based attendance prediction.
- **Polloye:**[Live Demo] Built and deployed a real-time Kahoot-style quiz platform using Next.js, TypeScript, PostgreSQL, Prisma, and Socket.IO, supporting multi-user live sessions, timed questions, and session analytics. Developed a dedicated WebSocket server with authenticated connections and deployed the system on an Azure Linux VPS using Docker, PM2, and Caddy.
- **Real-Time Location Tracker:** Built an event-driven location tracking system using Node.js, Express.js, Socket.IO, Apache Kafka, and Leaflet for real-time multi-client geolocation sharing. Implemented a Kafka producer-consumer pipeline with partitioned topics and client-keyed messages, streaming browser location updates to connected clients every 10 seconds.

Leadership & Activities

- **Social Media Manager – Zion Technical Fest, DY Patil Institute of Technology:** Created promotional content and managed social media posts for the college technical festival. Produced short-form video content that reached more than 300,000 views, helping increase visibility and engagement for the event.
- **Volunteer – My Prakriti Community Initiative:** Regularly participate in weekly plogging drives focused on environmental cleanliness by collecting waste while jogging in public spaces, contributing to community awareness about sustainable practices.