

AYUSHMAAN PANDEY

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PROFILE SUMMARY

Full-Stack Developer with strong expertise in backend engineering, distributed systems, and scalable microservices architecture. Experienced in designing and developing RESTful APIs, WebSocket-based real-time applications, and high-concurrency systems using Golang, Node.js, and PostgreSQL. Proven track record of optimizing performance, reducing latency, and improving database efficiency in production environments. Skilled in system design, Docker-based deployments, and cloud infrastructure (AWS), with a focus on reliability, fault tolerance, and clean architecture principles.

TECHNICAL SKILLS

Languages: Go, Rust, Java, C++, TypeScript, JavaScript

Backend: Gin, Spring Boot, Express.js, Node.js, REST APIs, WebSocket, gRPC, Pub/Sub

Frontend: React.js, Redux, Tailwind CSS

Databases: PostgreSQL, MySQL (InnoDB), MongoDB

DevOps & Cloud: Docker, Docker Compose, AWS, CI/CD

Concepts: Microservices Architecture, Distributed Systems, Concurrency, Caching, System Design, Data Structures & Algorithms

WORK EXPERIENCE

IthiSaga Digitech Pvt Ltd, Hyderabad

Feb 2025 – Present

Backend Developer (Postgres, React, Express, Docker Compose, AWS)

- Led migration of legacy frontend to React.js, improving modularity and maintainability.
- Designed and optimized scalable microservices and RESTful APIs with authentication and role-based authorization.
- Improved system performance by reducing network requests by 80%, minimizing database queries by 50%, and lowering latency by 64.5% through caching strategies and query optimization.

CourseConnect, Bengaluru

Nov 2024 – Jan 2025

Backend Developer Intern

- Designed and developed scalable backend services using Golang (Gin) and MySQL (InnoDB).
- Built REST APIs and optimized database indexing, reducing storage usage by 80%.

PROJECTS

Realtime Stock Exchange (End to End) - [Github](#)

- Built a real-time stock trading platform simulating an exchange matching engine using TypeScript, WebSocket (WSS), Pub/Sub, and PostgreSQL.
- Designed high-concurrency and scalable trade execution engine with in-memory state management to minimize database calls and reduce latency.
- Implemented REST APIs and event-driven architecture for order matching and trade settlement.

2d Metaverse Workspace (End to End) - [Github](#)

- Architected scalable real-time communication using WebSocket and state synchronization strategies.
- Developed via **Test Driven Development** using Express.js, **WSS** for real-time backend, Prisma with PostgreSQL for data management, and React/TypeScript for frontend. Optimized **Backend state management** to reduce database calls, improving latency in high-concurrency scenarios.

Chat Application - [Github](#) - [Live](#)

- Developed real-time chat application using WebSocket and React (TypeScript), enabling bidirectional communication and event-driven message broadcasting.

EDUCATION

Pondicherry University

Master of Computer Application (GPA: 7.75)

Pondicherry

Dec 2022- May 2024

