Shivam Yadav

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SUMMARY

A backend-focused developer with hands-on experience in building intelligent systems for organizing knowledge, handling real-time data, and supporting large-scale communication. Developed production-ready tools such as a secure license manager, a high-performance TCP server supporting over 10,000 clients, and AI-powered platforms for chat and content summarization. Skilled in modern technologies including Node.js, PostgreSQL, Redis, RabbitMQ, WebSockets, Docker, and Prisma, with a strong focus on delivering practical, scalable, and high-impact solutions.

TECHNICAL SKILLS

Languages: C, C++, C#, JavaScript, TypeScript
Operating Systems: Unix/Linux
Developer Tools: Postman, MongoDB Compass, GitHub, Docker
Technologies/Frameworks: NodeJS, Web Socket, Prisma ORM, epoll, QuickFIX, RabbitMQ, Pub/Sub
Version Control: Git
Databases: SQL, MySQL, MongoDB, PostgreSQL, Redis
Others: DSA, DBMS, OOPS

EXPERIENCE

Software Development Intern **May 2025 – Present**
Symphony Fintech Solutions Pvt. Ltd. *Mumbai*

- Built a license generator application by integrating C# with a Rust module for secure license encryption and validation, improving security compliance by 95%.
- Developed a high-performance C++ TCP server using epoll by implementing non-blocking I/O architecture, achieving 10,000+ concurrent client connections with sub-millisecond latency.
- Implemented RabbitMQ message queuing system by configuring heartbeat monitoring and message synchronization versions, routing order messages from clients to different queues based on routing keys, reducing message processing latency by 40%.
- Implemented QuickFIX/TT FIX integration in C++ by handling financial protocol communication with real-time message processing, reducing trade execution time by 30%.

PROJECTS

Second-Brain — Node.js, PostgreSQL, Prisma ORM, Vector Database, Redis, AI, WebSocket, Docker, RabitMQ **2025**

- Enabled users to store and organize diverse resources (PDFs, articles, videos, docs, and links) by implementing semantic vector search and intelligent content indexing, improving content retrieval efficiency by 40%.
- Implemented AI-driven content synthesis by integrating background task queues and real-time updates via WebSocket, allowing users to generate intelligent summaries from related resources.

ChatSphere — React.js, Tailwind CSS, Node.js, WebSocket, AI **2025**

- Developed a real-time chat platform which enables seamless messaging for 1000+ concurrent users with 99.9% uptime reliability.
- Built a WebSocket server by implementing dynamic room lifecycle management and user session tracking, reducing connection drops by 30%.
- Integrated AI-based conversation summarization by implementing real-time content analysis, providing instant chat overviews that enhanced user engagement by 25%.

N Queens Visualizer — HTML, CSS, JavaScript **2024**

- Visualized the N-Queens problem by implementing step-by-step backtracking algorithms with interactive grid interface, improving educational comprehension by 80%.
- Optimized algorithm performance by implementing efficient conflict detection methods using recursion and backtracking, reducing computation time by 60%.

EDUCATION

Shri Guru Gobind Singhji Institute of Engineering and Technology **2022 - Present**
B.Tech - Computer Science and Engineering (8.6 CGPA) *Nanded*

Bhavans College **2020 - 2022**
Higher Secondary Education - Science (90%) *Mumbai*