

# Jaywant Adhau

Backend Developer | Systems Developer | Data Analyst

📍 Nagpur, India | 📞 +91 9545014449 | ✉️ jaywantadhau16003@gmail.com

🔗 [github.com/jaywantadhau](https://github.com/jaywantadhau) | [linkedin.com/in/jaywantadhau](https://linkedin.com/in/jaywantadhau)

---

## PROFESSIONAL SUMMARY

Highly motivated **Golang Developer** with expertise in **backend systems, distributed architectures, and scalable APIs**. Skilled in **systems programming, concurrency, microservices, and AI agent integration**. Experienced in building **search engines, security tools, and P2P file systems**. Strong foundation in **data structures, algorithms, and system design**, with proven problem-solving skills. My motto is **“No system is strong until you don’t optimize it to the core level”**.

---

## TECHNICAL SKILLS

- **Languages:** Golang, Python, C, C++, TypeScript, JavaScript
- **Backend:** REST APIs, Node.js, Express.js, Docker, PostgreSQL, MySQL, MongoDB
- **Frontend:** React.js, Angular, HTML5, CSS3
- **DevOps & Tools:** Git, GitHub, AWS, Docker, Linux, Postman, Selenium
- **Specializations:** Distributed Systems, Microservices, Concurrency, System Design
- **Testing:** TDD, Unit & Integration Testing, Go Modules

---

## AI AGENTS & PLATFORMS

- **LLMs & Frameworks:** OpenAI GPT, Claude, LLaMA, Mistral, HuggingFace Transformers
- **Vector Databases:** Pinecone, Weaviate, Milvus, ChromaDB
- **Orchestration & Agents:** LangChain, LlamaIndex, CrewAI, AutoGen, Semantic Kernel
- **AI Tools:** RAG (Retrieval-Augmented Generation), Fine-tuning, Prompt Engineering, Agentic Workflows
- **Cloud AI Services:** AWS Bedrock, Google Vertex AI, Azure OpenAI Service

---

## KEY PROJECTS

- **DisktroByte – P2P Distributed File System (Go)**
  - Peer discovery, liveness monitoring, CLI interface
  - Adaptive chunking, LZ4 compression, ChaCha20-Poly1305 encryption

- Pluggable storage with secure file transfer
  - **Universal Clipboard** (Go, NextJS, Docker, MongoDB)
    - Temporary online clipboard with secure file storage (AWS S3)
    - Real-time updates, 24-hour expiry, responsive cross-device design
  - **Clinic Management System** (Go, NextJS, AWS, WebRTC, Redis)
    - Real-time queue management, appointment scheduling, secure prescriptions
    - Integrated WhatsApp notifications, JWT-based security
  - **Full-Text Search Engine** (Go)
    - Achieved **sub-25μs query times** with 60K+ documents
    - Designed advanced concurrent indexing and memory optimization
  - **File Encryption Tool** (Go) – AES-256 based CLI encryption/decryption utility
  - **Custom OS Bootloader** (C/Assembly) – 32-bit bootloader demonstrating systems programming expertise
- 

## EDUCATION

### **B.Tech, Computer Science & Engineering** (2022–2026)

G.H. Raison College of Engineering & Management, Nagpur

Relevant Coursework: Data Structures, Algorithms, OS, DBMS, Networks, Security, Blockchain

---

## CERTIFICATIONS

- **Python Automation & Machine Learning** – Marvellous Infosystems (2024)
  - **Full-Stack Web Development (MEAN Stack)** – Marvellous Infosystems (2023–24)
- 

## ACHIEVEMENTS & LEADERSHIP

- Captain, **College Football Team** – Led to inter-college championship victory
  - Organizer, **Techfest** – Managed logistics & 7,000+ attendees
  - **Open-Source Contributor** – Actively contributing to Go repositories
- 

## INTERESTS

Backend Architecture • Distributed Systems • AI Agents & RAG Systems • Low-Level Programming • Open Source Contributions

## ■ Completed Projects

The following projects have been completed under the 21-Day Coding Challenge.

# ■ 21-Day Coding Challenge - Project Catalogue

## Full Stack Projects (Next.js, NestJS, React)

- Personal Portfolio + Blog System
- Real-time Chat App (Slack Lite)
- E-commerce Mini App
- Task Manager (Trello Lite)
- SaaS Dashboard (Analytics)

## DevOps Projects (Docker, CI/CD, Kafka, Grafana, AWS)

- Dockerized Full Stack App
- CI/CD with GitHub Actions
- Monitoring & Metrics (Prometheus + Grafana)
- Kafka Event-Driven System
- AWS Deployment (ECS + S3 + CloudFront)

## AI/ML Case Studies & Projects

- Transformer Case Study
- RAG Case Study
- GenAI Case Study
- AI-Powered Resume Screener
- Image Caption Generator
- AI Chatbot with Memory (RAG)

## Low-Level Projects (C, C++, Go)

- File Compression Utility (C++)
- HTTP Server in Go
- Simple Shell (C)
- Memory Allocator (C++)
- Mini Git (Go)