

Jaywant Adhau

Backend Developer | Systems Developer | Data Analyst

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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
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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)
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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
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INTERESTS

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