

CodersGyan Internal Wiki - Extended Version

Section 1: Company Overview CodersGyan is a technology-driven organization focused on building scalable SaaS applications, AI-powered systems, backend architectures, and enterprise-grade solutions. The company emphasizes performance, security, and maintainable system design.
Mission: To build reliable and scalable systems that solve real-world business problems.

Section 2: Engineering Standards

All backend services must follow clean architecture principles. Preferred stacks include: - Backend: Node.js (Fastify), Go - Frontend: React, Next.js - Database: PostgreSQL - Caching: Redis - Containerization: Docker - Orchestration: Kubernetes Code must be version controlled using Git and reviewed before merging.

Section 3: AI & Data Infrastructure

AI systems are built using Retrieval-Augmented Generation (RAG). Core components include: - Embedding Models (Google embedding-001) - Vector Database (Pinecone) - LLMs (Gemini models) - Document loaders and chunking pipelines All documents must be chunked with overlap for optimal semantic retrieval.

Section 4: Security Policies

Security Guidelines: - Use JWT authentication with HTTP-only cookies - Passwords must be hashed using bcrypt (minimum 12 rounds) - All APIs must enforce role-based access control - Sensitive data must never be logged - Environment variables must be stored securely Internal documents are confidential.

Section 5: Internal Operations

Team Structure: - Backend Team - Frontend Team - DevOps Team - AI/ML Team Release
Process: 1. Feature development 2. Code review 3. Staging deployment 4. QA validation 5.
Production release All deployments must follow CI/CD best practices.