

Ashan Niwantha

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Portfolio: ashanniwantha.me | Social: [LinkedIn](#) | [Github](#)

Nationality: Sri Lankan | Visa Status: Seeking Sponsorship

Practical backend developer with hands-on experience in Golang, Python, and PostgreSQL. Built and deployed a live social music platform serving 200+ users. Designed a concurrent ticket booking system with Redis caching and pessimistic locking. Seeking a junior backend role in Dubai to contribute to high-performance systems.

CORE TECHNICAL SKILLS

- **Languages:** Go (Golang), Python (FastAPI, OpenAI SDK), SQL
- **Backend Development (Go):** Clean, idiomatic Go; REST APIs (Chi Router, middleware, JSON); concurrency (goroutines, channels); gRPC; pointers and interfaces.
- **Databases & Persistence:** PostgreSQL, Redis, MongoDB; schema design; raw SQL; migrations (golang-migrate); repository pattern with connection pooling.
- **Agentic AI & Systems (Python):** Multi-agent systems; LLM integration; vector databases (ChromaDB); generative AI; semantic search; conversation history; asyncio; cross-runtime patterns (Python AI + Go backend).
- **Cloud & DevOps:** AWS (EC2, S3, Lambda); Docker & Docker Compose; CI/CD pipelines; Git/GitHub; Supabase; Postman.

PROJECTS

Amptudix – Social Music Rating & Analytics Platform | [\[Live\]](#)

- **Tech:** Go, PostgreSQL, Deezer API, Docker, Railway
- Built and deployed a live platform serving 200+ active users with real-time chat, data aggregation workers, and dynamic leaderboards.
- Engineered the entire Go backend to handle API requests, real-time messaging, and background processing.
- Modelled complex relational schemas in PostgreSQL for personal analytics and global charts; integrated Deezer API for music catalogue ingestion.
- **Result:** Production platform with 200+ active users and 2000+ ratings.

Concurrent Movie Ticket Booking System | [\[Github\]](#)

- **Tech:** Go, PostgreSQL, Redis, Docker
- Built a high-throughput backend with layered architecture to prevent double-booking under concurrent traffic.
- Implemented pessimistic locking (`SELECT FOR UPDATE`) and context-based transactions to ensure data integrity.
- Designed Redis caching with versioning and explicit eviction; used `singleflight` to prevent cache stampede.
- **Result:** Eliminated race conditions and significantly reduced database read latency.

LEADERSHIP & MENTORSHIP

Student Association President | ESOF Metro College (2023–2024)

- Elected to lead 200+ members; organised logistics for the Annual Sports Meet (300+ participants) and a charity project that raised funds for an orphanage.
- Mentored 10+ peer developers during campus hackathons, debugging API flows and explaining concurrency patterns in Go and Python.
- Facilitated weekly technical workshops, simplifying concepts of computing, programming and design principles.

EDUCATION

- **Pearson Diploma in IT and English** | ESOF Metro College (2023 – 2024)
- **Higher National Diploma (HND) in Data Analytics** (Partial Completion) | ESOF Metro Campus, Colombo (2023 – 2025) | Completed 2 years of coursework; focused on data structures, database design, and programming fundamentals.