

Ashwin Sathiya Moorthy

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SKILLS

- **Languages:** Go, Javascript/Typescript, SQL
- **Backend:** net/http, Gorilla Mux, WebSockets, Concurrency (Goroutines)
- **Databases:** PostgreSQL, MongoDB, Redis
- **Frontend:** React.js, React Native
- **Soft Skills:** Problem Solving, Adaptability, Time Management

WORK EXPERIENCE

Software Engineer Backend (Remote) - KiudTech School Software | [Link](#) March-September 2025

- Built and optimized backend APIs for a school software system handling ~3,000 students per school.
- Designed attendance and **core academic workflows**, ensuring reliability under high-volume daily writes.
- Improved onboarding performance **reducing latency** from 4–5 seconds to milliseconds-level operations.
- Deployed edge-based API using **Bun.js** to minimize cold-start latency and improve request performance.
- Used PostgreSQL with Drizzle ORM for data persistence and Docker for consistent service deployment.
- Instrumented **Prometheus** for metrics collection and **Grafana** to visualize system load and scaling behaviour.
- Deployed the full system on an AWS **EC2** with **S3** backed static asset hosting.

Tech: Bun.js, Postgres, AWS (EC2, S3), Docker, Drizzle ORM

PROJECT

Cldo Terminal-First Local Manager | [Link](#) | [GitHub](#) December 2025

- Developed a terminal-first, local-only task management tool optimized for developer workflows.
- Designed a CLI interface in Go with predictable commands and scriptable usage (non-TUI).
- Implemented context-aware task organization, displaying tasks hierarchically based on their creation path.
- Implemented persistent local storage using SQLite for reliable task management and fast query performance.
- Integrated SQLite via CGO, addressing build constraints and cross-platform binary limitations.

Tech: Go, SQLite, CGO, CLI (Terminal Applications)

Real-Time Quiz Application | [Link](#) | [GitHub](#) July 2025

- Built a realtime quiz platform where teachers create quizzes and students join sessions using a unique code.
- Implemented session based participation and realtime event streaming using **Gorilla WebSocket**.
- Designed concurrency handling using goroutines and channels with 1,000+ sessions under simulated load.
- Developed backend APIs in **net/http** for quiz creation, session lifecycle management, and result processing.
- Built a lightweight React.js frontend to consume WebSocket events and display real-time quiz state.
- Data persistence using **PostgreSQL** with **pgx connection pooling** and **sqlc** for type-safe query generation.

Tech: Go, Gorilla websocket, Goroutines, Channels, React.js, PostgreSQL, pgx pool, sqlc

Expense Analytics Dashboard | [Link](#) | [GitHub](#) December 2025

- Built a analytics platform enabling users to upload bank statements and generate monthly spending insights.
- Implemented secure file upload in s3s and data parsing to process transaction records for visualization.
- Developed an interactive dashboard in NextJs to visualize category-wise and time-based spending patterns.

Tech: TypeScript, Next.js, PostgreSQL, S3.

CERTIFICATE

- Web + DevOps Cohort (100x Engineers) | [Certificate](#) April-July 2024

ACHIEVEMENTS

- Selected for Smart India Hackathon National Level September 2025
- Winner 1st place in Inter College Hackathon February 2025

EDUCATION

Lovely Professional University Punjab
Bachelor of Technology - Computer Science and Engineering Aug 2023 – Present

RD International School Tamil Nadu
Senior Secondary, PCMB Apr 21 – Mar 23