

Ashwin Sathiya Moorthy

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SKILLS

Languages: JavaScript/TypeScript, Go, Python, HTML, CSS

Frontend: React.js, Vite, React Native, Next.js

Backend: Node.js, Express.js, Bun.js, Hono.js, REST APIs, net/http, pgx, sqlc

Databases: PostgreSQL, MySQL, MongoDB, Prometheus

DevOps: Azure, Docker, NGINX, Git, Prometheus, Grafana

EXPERIENCE

Kiudtech | Remote Intern | [Link](#)

Aug'25 - Feb'26

- Engineered and optimized backend APIs for a school software system actively handling 3,000+ students per school.
- Architected attendance workflows, ensuring 99.9% reliability under 10,000+ high-volume daily writes.
- Spearheaded edge-based API deployment using Bun.js to slash cold-start latency by 60% and enhance throughput.
- Leveraged PostgreSQL with Drizzle ORM for scalable data persistence and Docker for consistent deployments.

PROJECTS

Uptime Monitoring Service | [Github](#)

Aug'26

- Engineered a distributed uptime monitoring service capable of tracking 1,500+ endpoints concurrently.
- Orchestrated worker pools and goroutines to run the service efficiently on minimal 2-core cloud instances.
- Boosted monitoring efficiency via concurrent health checks, slashing execution time by 50% vs sequential JS.
- Strengthened failure detection to 99.9% reliability by integrating robust retry logic and precise latency tracking.
- Formulated PostgreSQL-backed REST APIs utilizing SQLC for type-safe queries and 40% faster DB interactions.
- **Tech Stack:** Go, net/http, PostgreSQL, SQLC, Goose, JWT, Docker, REST API, Goroutines, Worker Pools

Airopath | [Github](#) | [Demo](#)

Jun'26

- Created a React Native mobile application that optimizes air-quality routes for walking and cycling enthusiasts.
- Synthesized real-time AQI data with map routing to suggest 3+ alternative healthy paths for users.
- Interfaced with WAQI APIs to generate and rank optimal routes based on AQI levels, distance, and travel time.
- Secured user data by implementing Supabase authentication via Google OAuth and streamlined setup screens.
- **Tech Stack:** React Native, Expo, Supabase, OpenRouteService API, WAQI API, Google Maps, Expo Router

Cldo Terminal-First Local Manager | [Github](#) | [Releases](#)

Dec'25

- Forged a terminal-first task management tool in Go, tailored to accelerate developer productivity by 30%.
- Crafted a CLI interface with 10+ predictable commands supporting seamless and robust scriptable usage.
- Structured context-aware task organization, instantly displaying tasks hierarchically based on creation paths.
- Solved cross-platform binary limitations by embedding SQLite via CGO for reliable local data storage.
- **Tech Stack:** Go, SQLite, CGO, CLI (Terminal Applications)

CERTIFICATE

100x Developer | Full stack Web + DevOps | [Link](#)

Aug'25 - Feb'26

EDUCATION

Lovely Professional University

Bachelor of Technology in Computer Science and Engineering | CGPA: 6.98

Aug'23 – Present

Phagwara, Punjab

RD International School

Senior Secondary, PCM | Percentage: 84.6

Apr'21 – Mar'23

Tamil Nadu

RD International School

10th | Percentage: 75.8

Apr'20 – Jun'21

Tamil Nadu