

Muhammad Darab

Full-Stack Software Engineer

Lahore, Pakistan | +92 346-5739974 | darabmonib123@gmail.com | <https://darab.me>

PROFILE

Full-stack software engineer with 4+ years of production experience across MERN, Go, and Lua, delivering client, startup, and internal platforms spanning real-time geospatial systems, blockchain reward distribution, desktop applications, and AI agent orchestration. Comfortable owning features end-to-end — from API design and database performance to deployment on AWS, Azure, and Cloudflare. Recently expanded into agentic AI development, building LLM-orchestrated multi-agent systems for enterprise automation.

PROFESSIONAL EXPERIENCE

Full-Stack Developer — Tech Flairz

Dec 2024 – Present · Bahria Town, Lahore

- Own end-to-end development of FoyerCare, an AI-powered referral intake platform for home health agencies — frontend, backend, integrations, and cloud infrastructure.
- Support HIPAA compliance efforts through BAA coordination, security implementation, and participation in SOC 2 audit planning and compliance discussions.
- Built RESTful APIs for core data exchange between services, improving response consistency through query and payload optimization.
- Improved database query performance and indexing strategy to speed up data retrieval under peak load.
- Implemented authentication and authorization flows aligned with security best practices to protect sensitive user data.
- Monitored server performance and resolved backend bottlenecks to keep production services stable and responsive.
- Partnered with the frontend team to integrate services and streamline deployment, shortening release cycles.
- Key projects: *FoyerCare*, *Numik AI (multi-agent orchestration)*, *MapMetrics GL*, *MapAtlas*.

Software Engineer — Mind Maze LLC

Jun 2024 – Nov 2024 · Remote

- Engineered real-time GPS marker movement for live fleet tracking (Floty.ai) using Supabase real-time channels for low-latency location updates.
- Built and integrated backend features on Supabase — authentication, database schema, and real-time updates — for a live production startup product.
- Developed interactive UI components with a focus on accessibility, improving usability across user roles.
- Diagnosed and resolved application stability issues, reducing recurring defects reported by QA.
- Key projects: *Floty.ai*, *Jawdah*.

Software Engineer — InvoZone

Mar 2023 – Mar 2024 · Johar Town, Lahore

- Owned debugging and maintenance of the internal company CMS, keeping it reliable for daily cross-team use.
- Delivered features on client-facing products; received formal team-level appreciation from the Project Manager for delivery quality.
- Built and maintained a cross-platform desktop application using Electron.js from active development through release.
- Led code reviews and coordinated day-to-day team management initiatives for a small engineering pod.
- Key projects: *InvoChat*, *InvoHub*.

Associate Software Engineer — InvoZone

Mar 2022 – Mar 2023 · Johar Town, Lahore

- Provided time and effort estimations for client projects that informed planning and sprint commitments.
- Debugged and repaired non-functional open-source codebases to restore successful builds and execution.
- Delivered assignment-based applications under senior guidance, ramping quickly from junior to independent contributor.
- Performed system integration and foundational debugging across client and internal tooling.

KEY PROJECTS

Tech Flairz

FoyerCare — AI-Powered Referral Intake Platform

Developed and maintain the full FoyerCare platform for home health referral intake, owning frontend, backend, integrations, and cloud infrastructure end-to-end. Supported HIPAA compliance through BAA coordination, security implementation, and participation in SOC 2 audit planning and compliance discussions.

Numik AI (formerly ADD) — Multi-Agent AI Orchestration System

Contributing to an enterprise platform deploying AI agents as autonomous “Digital Employees” (HR, SOC, PM, QA) with a supervisor orchestration layer and a human-in-the-loop Control Tower, integrating real tools including Gmail, GitHub, Jira, and Google Drive.

MapMetrics GL & PEAQ Blockchain Integration

Contributed to @mapmetrics/mapmetrics-gl, a WebGL vector-tile SDK forked from MapLibre GL, and helped integrate the client platform with the PEAQ blockchain to deliver secure, verifiable crypto-reward distribution to user wallets.

MapAtlas — Portal, Studio & Hub

Developed multiple applications across the MapAtlas ecosystem enabling users to purchase, customize, and contribute to map data, supporting both SaaS and non-SaaS deployment models.

Mind Maze LLC

Floty.ai — Fleet Management & Tracking

Contributed real-time GPS tracking, route planning, and vehicle-monitoring features to a fleet management platform used for logistics visibility and asset tracking.

Jawdah — QA Testing Marketplace Platform

Contributed to a bilingual (English/Arabic) marketplace connecting companies with specialized QA testers, including the dispute-resolution system and tester portal.

InvoZone

InvoChat — Team Collaboration Platform

Contributed to an all-in-one collaboration platform offering instant messaging and file sharing, building features that streamline workplace communication.

InvoHub — Internal Resource Engagement & Allocation Platform

Built an internal tool for InvoZone to track employee allocations across active projects, enabling management to monitor utilization, plan staffing, and coordinate resources org-wide.

TECHNICAL SKILLS

Languages	JavaScript (ES6+), TypeScript, Go, Lua, C++, SQL
Frameworks	Node.js, Express.js, React, Electron.js
Cloud & Infra	AWS, Azure (incl. Container Apps), Cloudflare, Docker, Supabase
Databases	MongoDB, PostgreSQL — schema design, indexing, query optimization
AI / Agentic	Claude & agentic coding workflows, LangChain, Pydantic, DAG-based orchestration, LLM pipeline design
Practices	Git/CI workflows, code review, cross-platform desktop delivery, project estimation

CONTINUOUS LEARNING

- Generative AI using LangChain — CampusX: completed a hands-on course covering LangChain, Langfuse, prompt chaining, and LLM pipeline design.
- C++ — CodeWithHarry (YouTube): core language and systems-programming fundamentals.
- JavaScript Basics & Fundamentals — InvoLearn (InvoZone), Dec 2021–Feb 2022: built and presented a full MERN stack project for certification.
- JavaScript Development Course — Udemy, Dec 2021: hands-on JavaScript and database management projects.
- Web Development Course — Arfa Karim Tower (Remote), Dec 2021: built and presented a functional HTML/CSS website.