

ABDUR RAHEEM K

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EXPERIENCE

ShineUp

Full Stack Developer

Remote

Nov 2025 – Present

- Spearheaded the development of a real-time mission-control web interface in React and TypeScript for satellite operations, enabling 5 concurrent operators to seamlessly monitor live orbital streams.
- Designed and shipped 12 JWT-secured REST APIs in Node.js/Express, sustaining ~200 req/min of continuous telemetry data exchange.
- Slashed p95 query latency by 40% on 8 high-write telemetry tables by tuning PostgreSQL schemas and adding composite indexes.

Freelance

Full Stack Developer

Remote

Nov 2024 – Nov 2025

- Shipped 3 production-grade Next.js, Node.js, and PostgreSQL web applications for SMB clients, handling end-to-end architecture and deployment.
- Developed mobile-first React and Next.js UIs serving 500+ monthly active users, consistently achieving 90+ Lighthouse accessibility scores.
- Accelerated release cycles by 83% (from ~30 min to <5 min per deploy) across 3 production applications by architecting robust CI/CD pipelines.

Hackwit Technologies

Software Developer Intern

Chennai, India

Mar 2024 – Oct 2024

- Automated manual reporting workflows by building 3 internal full-stack platforms using React, Node.js, and TypeScript, saving 520+ engineering hours annually.
- Improved page-load performance by 20% across customer-facing platforms by implementing route-level code splitting and React Server Components.

PROJECTS

LLM Gateway — Production-Grade Multi-Provider API Gateway

Go, Envoy, gRPC, Docker

- Architected an API gateway in Go that routes LLM traffic to OpenAI and Anthropic by model name, performing transparent provider failover via Envoy internal redirects to ensure zero-downtime routing.
- Orchestrated a Go gRPC external processor (ext_proc sidecar) that intercepts headers across processing phases for real-time model-to-provider resolution and automatic 5xx-to-fallback conversion.
- Built a per-key spend budget enforcement system that parses token usage data and calculates request costs, blocking clients who exceed their monthly budgets before requests reach the LLM provider.

Tardi — Open-Source LLM Agent Testing Framework

TypeScript, Vercel AI SDK, Node.js

- Designed and published an open-source CLI testing framework (@abdur-raheem/tardi) that evaluates autonomous agents and LLM tool-calling workflows through a deterministic assertion gauntlet (crash → timeout → regex → schema → LLM judge).
- Built a provider-agnostic evaluation engine on the Vercel AI SDK supporting hot-swappable LLM judges, with intelligent concurrent execution to maximize throughput without exceeding API quotas.
- Automated test generation by creating a synthesis pipeline that clones repositories, detects entry points across Python/Node.js, and generates YAML test suites from golden runs for zero-config evaluation.

Developer DNA — AI-Powered Developer Telemetry Platform

Next.js, LangGraph, Python, Kafka

- Constructed a multi-agent AI analytical engine using LangGraph, chaining 5 specialized autonomous agents with persistent memory via RAG to transform raw IDE telemetry data into cohesive career insights.
- Implemented a resilient dual-LLM architecture leveraging Gemini for primary cloud processing with fallback to local Qwen 1.7B execution for enhanced privacy.

SKILLS

Languages: TypeScript, JavaScript, Go, Python, SQL, C++, HTML, CSS

Frameworks & AI: React, Next.js, Node.js, Tailwind, Vercel AI SDK, LangGraph, RAG, LLM Tool Calling, Autonomous Agents

Infrastructure: AWS, Kubernetes, Docker, Envoy Proxy, gRPC, PostgreSQL, Redis, MongoDB, GitHub Actions, Playwright

EDUCATION

Sathyabama Institute of Science and Technology

Bachelor of Engineering in Computer Science and Engineering

Chennai, India

Aug 2021 – May 2025