

Mohamed Mufeed

Backend & DevOps Engineer

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UAE Resident · Currently employed (notice period applies)

SUMMARY

Backend developer with 7+ years across servers and software: nine months of Linux and hosting administration, then 6+ years building and running a multi-tenant Laravel/PHP ERP for 200+ UAE clients. I take on the work that keeps a production system fast and recoverable — backups and disaster recovery, database internals, server capacity, WebSocket infrastructure, deployment — alongside the application architecture and queries that remove bottlenecks at the source. The usual pattern: find the root cause, fix it structurally, and make it something the rest of the team can use. Case studies: mufeedbinismail.dev.

TECHNICAL SKILLS

Infrastructure: AWS (Lightsail, S3), Linux administration (LAMP / LEMP, Nginx, Apache), Docker, disk partitioning and resizing, CLI provisioning, Bash automation, Git

Reliability and recovery: incremental backups with GFS retention, disaster recovery, MariaDB / InnoDB crash recovery, raw-disk data recovery (Go), Prometheus

Databases: MySQL / MariaDB (query optimisation, indexing, InnoDB internals), Redis (cache, sessions, queues), version-controlled migrations

Backend: PHP 5.6–8.x, Laravel (queues, events, jobs, middleware, service container, migrations, auth, Eloquent), REST APIs, OAuth2 / JWT, WebSockets (Soketi / Pusher)

Architecture: multi-tenancy and server density, event-driven design, strategy pattern, legacy modernisation

Hosting and mail: DNS (BIND), Exim and Dovecot, cPanel / WHM / WHMCS, Plesk, Let's Encrypt

EXPERIENCE

Senior Developer

Direct Axis Technology · Kannur, India → Dubai, UAE (2021) · Jun 2020 – Present

AxisPro ERP, a multi-tenant SaaS platform for 200+ UAE clients. Joined a three-developer team and grew with the product to a 30+ person company, taking on infrastructure, backups and recovery, server capacity and backend architecture alongside development. Moved to a different product in 2026.

Infrastructure, backups and recovery

- Incremental backups (2025):** replaced full multiversion backups for 200+ clients with incremental backups and a GFS retention script — storage from 4 TB to ~15% of that, 5–10× effective capacity, and no more manual cleanup when the disk filled. Taken on outside core responsibilities.
- InnoDB disaster recovery (2025):** after a production database was dropped, reverse-engineered InnoDB's on-disk format (pages, indexes, records, undo logs) and built a Go tool to carve rows from a raw disk image. Recovered every lost transaction — 300+ invoices (AED 200K+) and 120+ payments (AED 130K+): ~90% from data pages in four weeks, the rest from undo logs in four more. [Case study →](#)
- Crash recovery (2023):** restored a client server after half a day of downtime — found the crashed table and configured MariaDB crash recovery in ~30 minutes.
- Provisioning and automation:** provision AWS Lightsail servers (LAMP, Nginx, WebSocket services), resize disks from the CLI, and automate database backups, asset builds and deploys, and instance setup with Bash.
- Self-hosted WebSockets (2023):** chose Soketi (Pusher-compatible) and ran it containerised; it replaced polling and Pusher for the notification centre of 200+ clients, removing per-client costs of AED 180–1,097 a month.

Performance and capacity

- Server density (2023–2024):** ongoing optimisation, including fixes found during live incidents, took hosting from 1 client per server to 3–4 (up to 10 depending on configuration) and cut AWS cost per client from AED 44 to AED 11 a month.
- Invoice screen (2023):** a slow screen the client kept answering with bigger servers turned out to recalculate the full balance on every view. Event-based updates and cached balances took it from 3+ minutes to 1–3 seconds and kept a client who was about to switch vendors.
- Balance reports:** from 2–3 minutes to 3–4 seconds with data bucketing and caching.
- Deployment (2021–2023):** rebuilt customisations scattered across 10+ divergent client codebases as configurable core features; new-client deployment went from 3–4 months to 2–3 hours. [Case study →](#)

Backend architecture and codebase health

- Migrations (2022):** introduced version-controlled Laravel migrations in place of direct production schema changes, removing a recurring source of unexplained errors and making environments reproducible.
- Core and client codebases (2021–2023):** replaced a full codebase fork per client with one core and a recorded divergence per client, so fixes and upgrades apply everywhere.
- Invoice reference concurrency:** diagnosed MAX+1 races compounded by a deadlock retry that left partial writes; rewrote it around a sequence table with row-level locking.
- Laravel on legacy PHP (2022 onward):** brought Laravel into a native-PHP codebase — auth and session, events, queue workers, scheduling, Redis caching — without breaking existing features; moved new clients from PHP 5.6 to 7.4. [Case study →](#)
- Git discipline (2021):** one commit per change in place of live production edits and dated backup folders.
- Day to day:** review code and maintain the core instance; handle critical incidents after escalation (backup failures, recovery, data integrity, prepaid and finance systems).

Product work

- HRM suite (attendance, payroll, leave, overtime, pension) from requirements to production; MVP in ~2 months.
- Configurable workflow engine (Laravel events and the strategy pattern): a new approval flow is one step-definition file. [Case study →](#)
- Leave management rebuilt as processor, logic and policy layers: a new leave type touches one file instead of four. [Case study →](#)
- SMS providers, Emirates ID readers and attendance-machine SDKs; a browser extension for automated billing and unpaid-application reports.

Server Administrator & Technical Support

Poornam Info Vision Pvt Ltd · Kerala, India · Jul 2019 – Mar 2020

- Administered Linux servers (LAMP / LEMP), DNS on BIND (MX, SPF, DKIM, DMARC), mail servers (Exim, Dovecot) and cPanel / WHM / WHMCS for shared-hosting clients.
- Monitored production infrastructure with Prometheus and CLI tools (sar, atop, netstat); resolved performance bottlenecks and mail deliverability issues, including blacklist removal.
- Provisioned custom VPS environments with Let's Encrypt TLS and supported WordPress and Magento deployments.

EDUCATION

BTech in Computer Science — APJ Abdul Kalam Technological University, 2019

LANGUAGES

English (fluent) · Malayalam (native) · Hindi (conversational) · Tamil (conversational) · Arabic (basic)