

MHD ZAYD SKAFF

Backend and Infrastructure Engineer

(+963) 949-073-502 | mhd.zayd.skaff@gmail.com | mhd-zayd-skaff.com
linkedin.com/in/mhd-zayd-skaff | Damascus, Syria

SUMMARY

Backend and infrastructure engineer with 4+ years building and running real-time, IoT and data-intensive systems in NestJS, Node.js and TypeScript, and in Laravel for e-commerce platforms, on microservices and cloud-native architectures. I design, build and run the backend systems products depend on, from architecture to production, for startups, SMEs and international teams. Today I lead backend and infrastructure for an IoT platform, with a team of two to three engineers.

EXPERIENCE

Backend & Infrastructure Lead | Syncrow IoT Solutions

04/2025 – Present · Remote, Dubai (UAE) · Joined as Backend Engineer, promoted to Lead in early 2026

- **Ownership.** Own the system architecture, planning and architectural proposals; run design reviews before implementation, code reviews and release management for a team of 2–3 engineers.
- **Cost.** Replaced the Firebase real-time database with Redis (storage and pub/sub) and WebSockets, cutting monthly infrastructure costs by 61.5%. Push notifications (FCM) are unchanged.
- **Infrastructure.** Moved the dev and staging environments from Azure to AWS and closed every Azure resource. Dev, staging and production now run on AWS (ECS/Fargate, EC2, RDS), 100% in Terraform, with the IaC repository under CI.
- **Data.** Introduced TimescaleDB on PostgreSQL with the data team, cutting query time by about 50% on a ~35GB table. Run PostgreSQL at the 100GB+ scale.
- **Reliability.** Reduced PostgreSQL connection exhaustion and instability with in-memory buffering and batched writes. Resolved production issues in database connectivity, SSL configuration and cloud networking.
- **APIs.** Designed APIs with advanced filtering over large datasets and device-driven workloads.
- **Platform.** Designed and built the multi-tenant, white-label foundation that lets one codebase power multiple brands (tenant-aware backend, build-time branded apps). The first branded application is about to launch.

Backend & DevOps Engineer, then Tech Lead | Scandinavia Tech

03/2024 – 04/2025 · Remote, Dubai (UAE) · Copax-FMS fleet management; primary technical contact for the client

- **Architecture.** Built the backend in NestJS, Mongoose and MongoDB as a monorepo, with RabbitMQ between services.
- **Result.** Real-time data updates improved fleet management efficiency by 30%.
- **Delivery.** Automated CI/CD, cutting deployment time by 40%. Dockerized the services and deployed them on VPSs at 98% availability.
- **Data.** Integrated vehicle devices for real-time data and designed MinIO storage that reduced operational latency.

Backend Developer | Sheen Value

08/2023 – 03/2024 · Damascus, Syria

- **E-commerce.** Built Sheen Store, an e-commerce platform on PHP Symfony, and integrated Stripe, PayPal and My Fatoorah, improving checkout reliability by 25%.
- **Platforms.** Ivory Fashions on Laravel with dynamic discounts; Ilhem Taher, a NestJS therapy platform.

PROJECTS

Co-founder, Backend & DevOps Engineer | Moushref Platform

08/2023 – 08/2024 · School payments and bus tracking with NFC bracelets

- **Platform.** NFC bracelets for cashless school payments with parent spending controls, and the same bracelets for real-time bus tracking; map dashboards cut assignment errors by 20%.

Stack: NestJS, TypeORM, Socket.IO, Docker, GitLab, MySQL.

VOLUNTEER LEADERSHIP

- **RBCs Team** (2020 – 2023), Project Manager & Team Leader: led 100+ volunteers; 19 videos with 117,000+ views.
- **Global Share** (2021 – present), Software Engineer & HR member: built a custom ERP in NestJS; trained 20 people.

EDUCATION

B.Sc. in Software Engineering | Damascus University (GPA 80%) | 2019 – 2024

Master of Business Administration (MBA) | Syrian Virtual University | 2025 – present

SKILLS

Backend: NestJS, Node.js, TypeScript, JavaScript, Laravel, PHP, Symfony, REST APIs, OAuth, Stripe, PayPal

Cloud and DevOps: AWS, Terraform, Docker, Git, GitLab CI/CD, RabbitMQ, MinIO, Redis

Databases: PostgreSQL, TimescaleDB, MySQL, MongoDB, TypeORM, Prisma, Mongoose

Languages: Arabic, English