

SHEIKH MOHAMMED ARSHAN

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SUMMARY

Backend Engineer with 3+ years of experience building high-performance systems using **Laravel, Node.js**. Specialized in scalable architectures, event-driven systems, and intelligent caching strategies, delivering **90% load time reductions** across 160K+ product datasets. Experienced in FinTech systems, distributed processing, and designing resilient, production-grade APIs.

TECHNICAL SKILLS

Languages & Frameworks: PHP (Laravel), Node.js, Express, Python (FastAPI), SQL
Databases & Caching: PostgreSQL, MySQL, Redis (Caching, Queues)
Architecture & Messaging: RESTful APIs, Event-Driven Architecture, Laravel Queues & Jobs, RabbitMQ, Observer Pattern
Infrastructure & DevOps: Docker, FrankenPHP, AWS (EC2, S3), Nginx, Linux, GitHub Actions (CI/CD)
Domain Expertise: FinTech Systems, ISO 20022, Ecommerce Engines, Performance Optimization, RBAC

PROFESSIONAL EXPERIENCE

Backend Engineer Dec 2024 – Present
Kilo Points FZCO Dubai, UAE

- Engineered a high-throughput system via PHP (FrankenPHP, docker) and **Redis**. Implemented dynamic caching via **Laravel Observers** across 160,000+ products, achieving a **90% reduction** in load times and sub-millisecond **< 0.5 ms** data retrieval.
- Spearheaded a critical migration from **Laravel 7 to 10**, reverse-engineering database schemas to establish a version-controlled source of truth and resolving complex dependency conflicts.
- Architected a fault-tolerant **multi-vendor synchronization engine** utilizing **Laravel Queues and background Jobs** to asynchronously aggregate real-time inventory from vendors (**including ecommerce stores**).
- Designed high-performance **RESTful APIs** for mobile consumption using strategic indexing and strict request validation protocols to ensure low-latency responses.

Software Engineer Sept 2023 – June 2024
Pratishthan Software Ventures Pvt. Ltd Bangalore, India

- Developed robust **FinTech payment systems** using Node.js and PostgreSQL, ensuring transaction integrity and ACID compliance for high-volume financial operations.
- Implemented event-driven microservice communication via **RabbitMQ**, utilizing **NACK responses** and advanced error-handling for enhanced system fault tolerance.
- Applied **ISO 20022 messaging standards** for secure, structured electronic data interchange in financial flows.
- Setup seed data across various systems, ensuring proper configuration and smooth functionality.

Software Engineer Intern Dec 2022 – June 2023
Nicozn Technologies Karkala, India

- Developed and deployed a Laravel-based property platform with Technical SEO (Schema Markup, Open Graph) and AWS production setup (EC2, S3).

PROJECTS & CONTRIBUTIONS

Open Source Contributor to Bruno | Node.js, OpenAPI, Algorithms

- Contributed to the core codebase of the popular open-source **API client (usebruno/bruno)** by resolving a critical parsing bug in the OpenAPI importer.
- Fixed a state-sharing bug in the recursion logic, ensuring the application accurately generates complex API request bodies from OpenAPI files.

Neonatal Data Management | Python, FastAPI, PostgreSQL, SQLAlchemy

- Engineered a secure clinical data management system using **FastAPI**, implementing strict schema validation to ensure the integrity of sensitive healthcare records.

EDUCATION

St. Aloysius Institute (AIMIT) Nov 2021 – Aug 2023
MSc. Software Technology Mangalore, India

SDM College of Business Management Aug 2018 – Sep 2021
Bachelor of Computer Application (BCA) Mangalore, India

LANGUAGES

Spoken: English, Hindi, Kannada, Malayalam, Tulu