Noor Yasser El-Nahhal

Senior Backend Engineer / Full-Stack (Backend-Focused)

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SUMMARY

A results-driven Senior Backend Developer with **5 years** of experience specializing in building highly reliable and scalable server-side web applications. Demonstrated expertise in managing high-volume systems, including a logistics platform capable of handling **20,000+ simultaneous requests** , and optimizing data handling for large datasets (e.g., 25,000+ Excel rows) using **AWS S3** and SQS. Proficient in crucial backend capabilities such as complex system integrations, including connecting applications with **Odoo ERP** and integrating various payment gateways. I effectively collaborate and **contribute to DevOps initiatives** under the team's supervision, assisting with cloud infrastructure management on platforms like **AWS and OCI** , including setting up robust **CI/CD pipelines with GitHub Actions** , utilizing **AWS Lambda and OCI Functions** , and supporting Infrastructure as Code (IaC) implementation by writing **Terraform** configurations to ensure system reliability and peak performance.

PROFESSIONAL EXPERIENCE

Senior Full-Stack Developer | Tahwool | Saudi Arabia, RUH

Jun 2022 – Present

- **AI Sales Agent (Murshid) — Salla Marketplace App:** Designed and built a multi-tenant SaaS that embeds an AI sales agent inside Salla merchant stores — product recommendations, image-based visual search, order follow-up, and complaint escalation — on **NestJS, TypeScript, PostgreSQL 16 + pgvector, Redis/BullMQ, and a Preact Shadow-DOM storefront widget**, with hybrid Arabic + vector **RAG** retrieval and per-merchant isolation enforced by database **Row-Level Security**.
- **Cloud Infrastructure & IaC Collaboration:** Worked closely with the **DevOps team** to support Infrastructure as Code (**IaC**) initiatives using **Terraform**, contributing to automated deployments, environment setup, and resource management across multiple environments. Assisted in utilizing **Oracle Cloud Infrastructure** (**OCI**) Functions and **API Gateway for serverless** workloads and API exposure.
- **Scalability & Cloud Operations Support:** Supported application scalability and availability by working with **AWS services** (EC2, S3, Lambda) under **DevOps guidance**. Assisted in configuring and tuning **Nginx** to improve application performance, stability, and security.
- **Core Backend & Product Development:** Developed and maintained an Airbnb-like rental web application using Laravel, PHP, MySQL, and JavaScript. Implemented core business features including authentication, social logins, Google Maps integration, and multiple payment gateways..
- **External Systems Integration:** Collaborated on integrating the core platform with **Odoo Accounting** to automate invoice generation and synchronize financial data. Participated in **integrating multiple government systems for identity verification and real estate registry** validation to ensure data accuracy and regulatory compliance. Worked on securing external API integrations by configuring **Google API keys with domain-based** restrictions to protect sensitive endpoints. Assisted in integrating **Name.com APIs** to enable in-platform domain purchasing and management. Contributed to **Cloudflare integration for SSL termination**, DNS management, and domain security, including validating name servers and enabling dedicated custom domains per property. Supported integrations with **multiple payment gateways** and **banking APIs** to facilitate secure and reliable online transactions.
- **Operational Excellence:** Contributed to operational stability and issue resolution by working with monitoring and tracking tools such as **PRTG** and **Zendesk**. Assisted in integrating **Sentry** for real-time error tracking and production issue monitoring, enabling faster debugging and incident response. Utilized **Hotjar** to analyze user behavior and feedback, helping identify usability issues and improve overall user experience.

- Consulting & Specialized Projects (Under Tahwool Company Umbrella)
- **Zakat, Tax, & Customs Authority:** Led optimization of critical batch server operations, **resolving Oracle SQL exceptions** to enhance system reliability and performance. Integrated **PHP-based real-time statistics** and implemented high-availability measures. Improved the Unified ICM/Contact Center Enterprise system through cross-functional teamwork.
- **SOCPA (Hackathon Management):** Designed and developed a secure, user-friendly system for managing hackathon events (registration, login, SMTP notifications, file storage using OCI Buckets). Deployed the system on **OCI** with Vultr staging and MySQL.
- Reduced API response time by **~35%** through query optimization and Redis caching
- Designed scalable backend architecture supporting **20,000+** concurrent requests
- Improved production stability by eliminating **~90%** of recurring critical issues

Senior Full-Stack Developer | WeArt | Remote

Jun 2024 – Nov 2025

- **Performance Engineering & Scalability:** Developed and optimized a high-throughput logistics platform, achieving integration with multiple logistics providers to successfully handle **20,000+ requests simultaneously**.
- **AWS & Data Processing:** Enhanced system efficiency by utilizing **AWS SQS queues and batching** for improved request processing. Leveraged **AWS S3** for secure storage and efficient retrieval of large datasets, including handling Excel files with **25,000+ rows**.
- **DevOps & Automation:** Established robust **CI/CD pipelines with GitHub Actions** for seamless deployment and continuous integration. Deployed and managed containerized microservices using **ECS and Docker**, ensuring scalability and efficiency.
- **Infrastructure Optimization (IaC):** Optimized cloud infrastructure and automated resource provisioning and scaling using **AWS CDK**.
- **Real-time Communication:** Implemented real-time notifications using **Reverb**, significantly improving communication and tracking. Integrated a **Telegram bot** for automated updates and logistics tracking.
- **Application Quality & Monitoring:** Ensured code reliability and maintained high test coverage by writing detailed feature tests and unit tests. Implemented **Sentry** for proactive monitoring and error tracking.
- **Enterprise Integration:** Integrated **Odoo ERP** modules to streamline operations and automate invoicing and sales processes.
- **UI/UX:** Leveraged **Livewire** to create dynamic and reactive user interface (UI) components within the application. Used **Scribe** for clear and maintainable API documentation.

Backend Developer | Drive7 | Saudi Arabia, RUH

Sep 2021 – Jun 2022

- **API & Core Development:** Developed and managed robust, high-performance **REST APIs** using modern **MVC PHP frameworks**, ensuring clean and maintainable code by applying Object-Oriented Programming (OOP) design patterns.
- **Database Optimization:** Applied **extensive MySQL expertise**, specializing in optimizing stored procedures, triggers, and complex database schemas to enhance system performance and scalability for complex domains.
- **System Integration:** Seamlessly integrated various third-party APIs into the application architecture to extend core functionality.
- **Deployment & Reliability:** Successfully deployed and maintained production environments, ensuring high reliability and uptime for critical web applications.
- **Methodology & Tools:** Contributed effectively within **Agile and Scrum** teams, utilizing **JIRA and Bitbucket** for streamlined project management, version control, and ensuring timely project deliveries.

- **Efficiency:** Leveraged a strong grasp of **open-source projects and technologies** to enhance overall development efficiency and accelerate project timelines.
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Backend Developer | TechBox | Palestine

May 2020 – Jul 2022

- **Versatile System Development:** Developed and maintained **multiple critical systems**, including the Invoicing, E-Commerce, Education, and Delivery systems, showcasing versatility and core expertise in various domain areas.
- **Core Data Management:** Played a pivotal role in designing, developing, and maintaining a robust system for managing high-volume user data and profiles.
- **Performance Optimization:** Optimized complex database queries and fine-tuned system performance to measurably **enhance overall application efficiency**.
- **Code Quality & Security:** Wrote comprehensive **unit tests** to maintain high code quality and reliability. Implemented robust security measures across the backend architecture to safeguard sensitive data and user privacy.
- **API Development:** Developed highly efficient **RESTful applications** utilizing modern **MVC PHP frameworks** (like Laravel).
- **Cross-Functional Integration:** Integrated backend functionality seamlessly with the user interface (UI), ensuring a cohesive and smooth end-user experience.

SYSTEM DESIGN & ARCHITECTURE

- Designed and contributed to scalable **RESTful APIs** following Clean Architecture principles.
- Implemented and supported event-driven architectures using AWS SQS and background jobs.
- Applied **SOLID** principles and **Domain-Driven Design** (DDD) concepts in backend services.
- Designed and maintained multi-tenant systems with role-based access control (**RBAC**).
- Participated in designing service boundaries and modular backend components.
- Supported system **scalability** and fault tolerance through asynchronous processing.
- Contributed to database schema design and data consistency across services.
- Assisted in identifying and resolving architectural bottlenecks in production systems.

BACKEND ENGINEERING EXPERTISE

- High-load systems and concurrency handling for large-scale applications.
- Advanced database indexing, query optimization, and N+1 problem mitigation.
- Asynchronous processing using queue-based systems (AWS SQS, background jobs).
- Design and implementation of idempotent APIs for reliable distributed systems.
- Secure authentication and authorization using JWT, Laravel Sanctum, and OAuth.
- RESTful API design following clean architecture and SOLID principles.
- Transaction management and data consistency in multi-service environments.
- API rate limiting, validation, and error handling best practices.
- Integration of caching strategies (Redis) to improve performance and reduce load.
- Writing maintainable, testable code with feature and unit tests.

SKILLS & OTHER

- **Programming:** PHP, Java, C#, JavaScript, TypeScript, Python.
- **Frameworks:** Laravel, NestJS.
- **Databases:** MySQL, Oracle, MongoDB, SQL Server
- **Cloud & DevOps:** AWS (ECS, S3, SQS, Lambda), OCI, Docker, Terraform, GitHub Actions, Nginx,
- Apache
- **Tools:** Git, GitHub, GitLab, Bitbucket, Jira, Trello

- **Other:** Odoo ERP, Payment Gateway Integration (PayPal, Stripe, Telr, Bank APIs)

EDUCATION & PROFESSIONAL CERTIFICATIONS

- **Academic Education:**
  - **B.Sc. Mobile Computing,** Islamic University of Gaza - 2022 (Grade: Very Good)
- **Specialized Diplomas & Professional Development:**
  - **Diploma in Fullstack Development,** Vision Plus Center - 2020.
  - **Diploma in Backend Development,** Gaza Sky Geeks - 2020.
  - **Diploma in English Language,** Oxford Center - 2023

CERTIFICATES

AWS Fundamentals

Terraform for AWS.

Laravel Advance.

NestJS

ASP.NET Core Minimal API

LANGUAGES

- **Arabic**: Native
- **English**: Professional Working Proficiency