

NABIH ELREFIE

SOFTWARE ENGINEER | FULL-STACK & MOBILE DEVELOPER

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PROFESSIONAL SUMMARY

Software Engineer and Computer Scientist focused on building business and enterprise applications. Experienced in backend and full-stack development, with hands-on expertise building custom ERPNext/Frappe applications, POS systems, and multi-system data sync architectures from the ground up, alongside ASP.NET/.NET, C#, Flutter, SQL, and REST APIs. Strong background in translating business requirements into reliable, maintainable software solutions, supported by hands-on systems and infrastructure experience.

TECHNICAL SKILLS

Languages	C#, PHP, Dart, JavaScript, SQL, Flutter, Python
Frameworks & Platforms	ASP.NET / .NET, Flutter, ERPNext, Frappe, Bootstrap, jQuery
Web & APIs	HTML5, CSS3, JavaScript, REST APIs, Web Applications, Backend Development
Databases	SQL Server, MySQL, MariaDB, Database Design & SQL Queries
Mobile & Desktop	Flutter Mobile Applications, iOS Development, C# Desktop Applications
Enterprise Systems	ERPNext/Frappe Custom App Development, Server Scripts, POS Systems (POS Awesome, QZ Tray), Multi-Instance Data Sync, System Integration
Tools & Infrastructure	Git, GitHub, Linux, Windows Server

PROFESSIONAL EXPERIENCE

Saham Petroleum Service .co | *Software Engineer* | Feb 2024 – Present

- Built a custom Frappe/ERPNext application (sahm_transport) from scratch to digitize trailer trucking operations — Fleet, Client, Trip/Operations, and Finance modules — replacing four manual Excel/PDF-based workflows.
- Designed and implemented a multi-instance invoice/data sync architecture between ERPNext deployments using scheduled Python scripts, handling authentication, sandbox constraints, and reliable per-record database commits.
- Developed and customized a POS system (POS Awesome) including a concurrency-safe sequential per-shift invoice counter using atomic database locking to support multiple simultaneous POS terminals.
- Built a Kotlin Android bridge application for thermal receipt/kitchen-ticket printing on Sunmi POS devices, using an embedded web server and WebView-based HTML-to-image rendering to solve Arabic text encoding issues.
- Designed and built a custom ERPNext theme and admin UI (JavaScript/SCSS), including a redesigned sidebar and navigation experience across desktop and mobile.
- Built a self-hosted client credentials and billing management dashboard (PHP/Bootstrap/MySQL) with AES-256 encrypted credential storage, invoice tracking, and automated renewal notifications.
- Analyze business requirements and translate them into practical, reliable, and scalable software solutions across ERP, POS, and web systems, while maintaining and troubleshooting existing applications for reliability and performance.

Bo.co | *Junior Technical Support Engineer* | Oct 2019 – Feb 2024

- Develop and maintain business applications and enterprise solutions using C#, ASP.NET/.NET, SQL, Bootstrap, and Flutter.
- Manage and customize ERP systems and related databases, including SQL Server.
- Build desktop, web, and mobile applications to deliver data and workflows to different departments and business users.
- Design database structures and write SQL queries to support business applications and reporting requirements.
- Translate business and user requirements into practical software solutions focused on reliability, usability, and efficiency.
- Administer and maintain company networks, servers, hardware, software, and related IT infrastructure.
- Configure and manage Windows domain environments, user accounts, access control, and Group Policy (GPO).
- Monitor and troubleshoot network, server, hardware, software, printer, scanner, and workstation issues.
- Plan and implement infrastructure upgrades, software installations, backups, and system improvements.

- Provide technical support and work directly with users to identify root causes and resolve operational issues.
- Support IT budgeting and technology decisions with attention to business needs and cost effectiveness.

EDUCATION

Bachelor's Degree in Computer and Information – Computer Science | 2017

- Degree: Very Good with Honours.
- Graduation Project: Excellent with Honours.

LANGUAGES

- Arabic – Native
- English – Excellent (Writing & Speaking)

PROFESSIONAL STRENGTHS

- Strong problem-solving and analytical skills with the ability to understand business and technical requirements.
- Effective communication with users, clients, and technical teams.
- Fast learner with a practical, solution-oriented approach.
- Able to work independently or as part of a team and under pressure.
- Experience across the software development lifecycle, from requirements and database design to development, deployment, and support.