Bishoy Sabry Hanna

Tech Lead | Solution Architecture and Engineering Management

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Profile

Tech Lead with 10+ years building ERP, POS and distribution platforms, currently leading a team of engineers Designs microservices-based, Oracle-integrated solutions and turns business requirements into delivery roadmaps. MBA holder who works closely with business stakeholders and government partners on large-scale digital programs.

Experience

Tech Lead

Akhnatoun for Trading and Distribution · Cairo, Egypt | Oct 2024 – Present

- Lead a backend team of 5 (2 senior, 3 junior engineers): plan and assign daily work, run structured code reviews and mentor the team, reducing production bugs by 20%.
- Architect backend solutions for ERP, CRM and POS systems integrated with Oracle, applying SOLID principles and Clean Architecture across a microservices-oriented platform.
- Built a shared API architecture that reduced code duplication and accelerated feature delivery by 30%.
- Integrated 5+ logistics and payment providers over secure channels, increasing successful transaction rates.
- Optimized database queries, caching and indexing, improving overall system performance by 35%.
- Automated financial workflows, saving 15+ hours of manual work per week and reducing data entry errors by 25%.
- Gather requirements with business departments and translate them into technical roadmaps, using an MBA background to align stakeholders and engineering.
- Represent the company on the digital transformation team working with the Egyptian Drug Authority on the national track and trace program, covering about 80,000 pharmacies.
- Support and secure the company's WordPress sites (atr-eg.com, evagro.com, eva-cosemtics.com): content updates, new theme designs and security.

Solution architecture · Microservices · Docker · Oracle integration · Team leadership

Senior Software Engineer

ITG Jordan | Oct 2019 – 2024

- Delivered scalable backend systems for international clients, maintaining 99.9% uptime across 15+ long-term projects.
- Applied MVC and Clean Architecture patterns to deliver robust software for global markets.
- Designed backend integrations for a digital call center platform, improving agent utilization by 15%.
- Streamlined client handover with comprehensive documentation and unit testing, reducing post-launch support tickets.

Software Engineer

Elmalek Automotive | Oct 2016 – Sep 2019

- Supported and maintained ERP and POS systems for tele-sales, ensuring smooth operations for high-volume sales teams.
- Enhanced backend services for the tele-sales platform, improving data accuracy and reporting efficiency.

Freelance Projects / Product Manager

Self-employed | Jan 2016 – Present

- Re-engineered the backend architecture of the PMP Arabic Simulator to support RTL languages and scalability.

- Developed a real-time microservice using Node.js (Express) and WebSockets.
- Built secure RESTful APIs for mobile and web clients (erego.app) and designed factory ERP systems for manufacturing (artwood-egy.com).
- Validated API reliability through comprehensive Postman testing.

Projects

Field Distribution and Collection Platform

Akhnatoun

- Architected the app distributors use to find customers with invoices due for delivery, showing customer name and code, invoice numbers and totals.
- Supports collection by cash, cheque, Fawry, InstaPay and other methods, returns, payment of prior-month open invoices and payment of bounced cheques ,100000 payment transactions monthly.
- Added a daily collection report per distributor and a customer route ordered from nearest to farthest based on traffic.
- Designed a branch-manager dashboard for exception payments and for deleting an invoice payment only after verifying it has not been applied in Oracle.

POS and Order Management

Akhnatoun

- Designed the sales ordering solution with item availability validation (pharma, cosmetics, food), item quotas and multi-step approval cycles.
- Split orders into direct orders and back orders, giving the supply chain team clear visibility of out-of-stock items.
- Integrated the telesales CRM with Grandstream so supervisors can track agent call volumes, listen to calls live and review call logs.

NettingHub Network Marketing Platform

Akhnatoun

- Architected an end-user platform where members earn commission on the users in their network, integrated with Oracle on a single shared stock.
- Designed branch-lock behavior so that locking a branch locks the related systems consistently.

Pharmacy Channels and Integrations

Akhnatoun

- ATR Supply: pharmacy ordering app showing credit limit and account information over a secured channel.
- CarePoint (Evapharma): invoicing system for pharmacies. iSupply: integration with a third-party platform that lets pharmacies invoice multiple distribution companies.
- Defined requirements with other departments for fast-delivery programs (including Mounjaro) and SubD, a program to appoint sub-distributors in uncovered regions.

Skills

Leadership and Architecture: Team Leadership, Mentoring, Code Review, Solution Architecture, Microservices, Clean Architecture, SOLID, Requirements Analysis, Stakeholder Management

Backend: PHP (Laravel, CodeIgniter, Symfony basic), Node.js (Express), TypeScript, RESTful APIs, WebSockets

Infrastructure: Docker, Linux, Git

Databases: MySQL, Oracle PL/SQL, Query Optimization, Indexing, Caching

Security and Quality: API Security, JWT, OWASP Top 10, Unit Testing

Tools: Jira, Trello, Postman

Education

Master of Business Administration
Arab Academy for Science and Technology | 2023 – 2025

BSc, Computer Science and Statistics
Helwan University | 2016

Languages

Arabic (native), English (fluent)