

# KARIM FAWZY

## SOFTWARE ENGINEER

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Agile full-stack engineer specializing in Flutter mobile apps and Laravel/Node.js back-ends. Proven record delivering high-performance e-commerce and HR platforms, integrating third-party APIs, and mentoring dev teams. Adept at turning complex requirements into scalable architectures, optimizing system performance, and driving continuous improvement.

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### AREA OF EXPERTISE

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- **Languages/Frameworks:** Dart & Flutter, Java & Android, JavaScript & React Native, PHP & Laravel, Node.js & Express
- **Mobile:** Native device features, adaptive UI, unit & integration testing
- **Backend:** RESTful API design, MVC, database design & migrations, performance tuning
- **IAM & Security:** RBAC, authentication, SailPoint integration
- **Tools/Practices:** Agile Scrum, Git, CI/CD pipelines, mentoring & team leadership

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### PROFESSIONAL EXPERIENCE

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- **Software Engineer – Mercado for E-Commerce Services, 6th October City, Giza (Aug 2021 – Present)**
- **Career Progression:**
- **Year 1 – Mobile Developer (Flutter):** Released multiple versions of the Z-Laundry mobile app, solving critical bugs and optimizing code performance. Led a full codebase refactor, improving app maintainability and scalability.
- **Year 2 & Beyond – Mobile & Backend Lead:** Took over supervision of mobile and backend development. Mentored a junior Flutter developer and introduced impactful modules, including:
  - Promo Code & Offers Module – Enabled seamless campaign setup and tracking.
  - Operations Module – Centralized order coordination, eliminating reliance on WhatsApp and enhancing internal communication.
- **Job Responsibilities:**
  - Designed and maintained scalable Flutter architecture for consumer mobile applications.
  - Developed Laravel-based RESTful APIs for user management, order processing, and operational modules.
  - Refactored and optimized front-end and backend code for better performance and security.
  - Mentored junior developer on Flutter best practices, testing, and Git workflows.
  - Participated in sprint planning, backlog grooming, and QA processes to meet agile delivery targets.
  - Led system architecture enhancements in authentication, RBAC, and modular service structure.
- **Key Achievements:**
  - Delivered successive, stable Z-Laundry app versions that improved user engagement and retention.
  - Reduced operational bottlenecks through successful deployment of centralized Ops Module.
  - Improved system scalability and maintainability, laying the groundwork for future expansion and automation.

## PROFESSIONAL EXPERIENCE

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- **Software Engineer – Roots Software (Remote, Canada) (Nov 2023 – Jul 2024)**

- **Job Duties**

- Built cross-platform mobile apps in Flutter, ensuring responsive UI and seamless native-device integration.
- Debugged and optimized applications for top-tier performance and user experience.
- Wrote clean, maintainable code and integrated RESTful APIs per project specs.
- Adopted new technologies and optimized algorithms for faster processing.

- **Achievements**

- Shipped stable releases of Roots HCM to Google Play and the App Store on schedule.
- Future-proofed the codebase via modular design and strategic refactoring.

## KEY PROJECTS

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- **Z-Laundry Mobile App**

- Led development of a Flutter-based laundry app, implementing refactored architecture, promo code engine, and order tracking features to enhance user engagement and operational control.

- **Mercado Back-End System**

- Built and maintained Laravel-powered APIs for marketplace operations, user management, order lifecycle, and internal dashboards; integrated RBAC and scalable database schemas.

- **Roots HCM App**

- Developed a Human Capital Management system in Flutter with robust API connectivity and cross-platform responsiveness; deployed to Google Play and Apple App Store with full CI/CD integration.

- **IAM Backend with SailPoint Integration**

- Engineered a secure Identity & Access Management back-end with role-based access controls, multi-factor authentication, and SailPoint directory integration using Laravel.

- **Offer & Operations Modules**

- Delivered business-critical modules for internal operations and promotional logic, streamlining business process automation within the Z-Laundry platform.

## KEY HIGHLIGHTS

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- Spearheaded architectural upgrades that improved scalability and reliability of e-commerce platforms.
- Integrated multiple third-party APIs, expanding product capabilities and enhancing UX.
- Reduced downtime and bug rates via proactive monitoring and rigorous automated testing.
- Refactored legacy codebases to streamline maintenance and accelerate future enhancements.
- **Career Goals:**
- Drive end-to-end delivery of high-impact mobile and backend solutions within agile teams.
- Deepen expertise in cloud-native architectures and DevOps to build highly scalable SaaS products.
- Progress into a technical leadership role, guiding engineering strategy and mentoring talent.
- Contribute to open-source initiatives and continuously expand my technology stack.

## EDUCATION

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- Bachelor of Information Technology – Misr University for Science & Technology, 6th October City, Giza (Jan 2016 – Jan 2020) – GPA 3.38 (B+)

## CERTIFICATIONS & TRAINING

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- IBM Full Stack Software Developer Professional Certificate – in progress  
(completed modules: Intro to Software Development; HTML/CSS/JavaScript; Backend Development with Node.js & Express)

## LANGUAGES

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- Arabic – Native
- English – Advanced