

# MOHAMED ELSAWY

Software Engineer

01090003178 • mohamed.elsawy739@gmail.com • Haram, Giza, Egypt

## Summary

Results-driven Software Engineer with 2+ year of experience developing Frappe-based ERP solutions and teaching programming at Cairo University. Skilled in Python, JavaScript, and SQL, I build intuitive applications that streamline business processes and empower data-driven decisions. Passionate about innovation, mentorship, and continuous learning in software engineering.

## Experience

Golive-Solutions	Cairo, Egypt
Software Engineer	2023 - Present
Cairo University Faculty of Science	Cairo, Egypt
Teaching Assistant	2024 - Present

## Projects

### 1 - Ask AI – Natural Language Interface for ERPNext

- Developed an AI-powered app enabling non-technical users to query ERP data using natural language (e.g., Show top customers this quarter).
- Integrated with Frappe backend to securely fetch real-time data and generate dynamic charts and tables.
- Implemented context-aware conversations to support follow-up questions seamlessly.
- Built a responsive frontend using JavaScript and Frappe UI, ensuring cross-device compatibility.
- Enabled one-click export of insights to PDF and Excel for reporting.
- Enforced enterprise-grade security with role-based access control and audit logging.

### 2 - SFA-Mobix - Frappe app was developed to handle the journey of the salesperson

- Developed a Frappe app to manage salesperson field activities, including daily journey planning and customer visits.
- Enabled creation of sales orders, invoices, and payments directly from mobile devices.
- Introduced an SFA-GL doctype to track sales transactions and reconcile them with accounting entries.
- Designed multiple custom reports for performance tracking and operational oversight.

### 3 - Production Cost Recalculation

- Built a Frappe app to automatically re-evaluate and update production costs monthly.
- Automated cost recalculations for manufacturing entries, incorporating additional overheads.
- Improved accuracy in financial reporting and inventory valuation.

### 4 - Purchase Shipment Tracking

- Developed an app to monitor shipment status and supplier reliability.
- Tracked partial deliveries, quantity variances, and arrival completeness against purchase orders.
- Supported multiple delivery routes (e.g., airport, warehouse) with real-time progress updates.

### 5 - Customizations & Automation

- Created numerous custom doctypes, scheduled jobs, and reports to streamline business workflows across various client implementations.

## Education

Faculty of Science - Cairo University  
B.Sc. Computer Science

2017 - 2021

## Skills

SQL · Python · Git · JavaScript