

MOHAMED SALEH

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Professional Summary

Senior Software Engineer with +8 years of experience turning business ideas into profitable, production-ready products across ERP, taxation, healthcare, robotics, and service-management sectors. Known for cutting operational costs by 40 % through smart automation and for creating new six-figure revenue streams from internal tools. Skilled at bootstrapping products from concept to launch, leading cross-functional teams, and integrating AI/ML to deliver data-driven insights and predictive analytics at scale.

Core Competencies

- **Software Development:** Python, C/C++, JavaScript, PHP, C#, Dart, Full-Stack Development, Agile/Scrum
- **AI / Machine Learning:** OpenAI APIs, Claude, TensorFlow, PyTorch, YOLO, OpenCV, NLP
- **Frameworks & Libraries:** Flask, Django, FastAPI, .NET, Flutter, Ionic, REST APIs, Microservices
- **Frontend Technologies:** HTML5, CSS3, Bootstrap, Responsive Design, UI/UX
- **Databases & Analytics:** MySQL, PostgreSQL, SQLite, Data Migration, Performance Tuning, Power BI
- **DevOps & Tools:** Docker, Git/GitHub/Bitbucket, CI/CD, Linux (Ubuntu/Red Hat), JIRA, Confluence
- **Robotics & Automation:** ROS, AGV, ARMS, FMS, IoT Integration, Real-time Systems
- **Languages:** Arabic (Native), English (Fluent)

Professional Experience

Robotics Software Engineer & Team Lead | Ideasparq Robotics (2021 – Present)

- Leading a 5-member R&D team building autonomous robotics systems; increased operational efficiency by 40 %.
- Architected the proprietary ARMS platform, replacing a USD 50k annual license and opening a six-figure revenue stream.
- Rolled out a fleet-management system orchestrating 20+ robots, cutting downtime by 60 %.
- Delivered AGV solutions across various factories, eliminating 80 % manual material handling.

Software Engineer | Accenture Malaysia -Outsourced at Google- (2019 – 2021)

- Presented and personally implemented 28 of the 66 proposed workflow improvements, markedly streamlining operations.
- Built an anti-theft system safeguarding USD 500k test equipment at 99.8 % accuracy.
- Automated reporting workflows for 1000+ users; processing time cut by 70 % and saved USD 100k annually.

Software Engineer | Lumin Systems - Egypt (2017 – 2019)

- Pioneered Egypt's national taxation portal, handling 10M+ daily transactions at 99.9 % uptime.
- Delivered a biometric card-issuing system for the Ministry of Interior MOI.
- Developed a cashless payment system for vending machines.

Freelance Software Developer | Independent (2017 – Present)

- Built 15+ bespoke applications for global clients, generating USD 500k in revenue with 4.8/5 client satisfaction.

Key Projects

- ARMS: A software platform for Autonomous Mobile Robot (AMR). The system features an interactive user interface (UI) that enables programming the robot, monitoring its status, facilitating navigation, creating missions, scheduling tasks, and generating reports.
- FMS: A system that controls various autonomous mobile robots.
- Clinic SaaS Platform: Tele-health solution serving 20k+ patients, 99.5 % uptime.
- Utilize ERP System: All-in-one ERP for 500+ SMEs, boosting productivity by 45 %.
- VAT4G Engine: IFRS-compliant tax calculator for six GCC countries processing USD 10M/day.
- Egypt Tax Portal: Government platform managing transactions with 99.9 % reliability.
- Barnzen: Barn Management System with rider booking app and Invoice generation.
- Handyman: Multi-vendor Complete Solution for Service providers.

Education

B.Sc. Computer Engineering, Helwan University (2017)

Selected Achievements

- Employee of the month at Google for 7 months in a row.
- Reduced operational costs by 40 % through automation.
- Active contributor in open-source AI/Robotics communities.