Mahmoud Ahmed *Full-Stack Software Engineer*

mahmoud.ahmed9@outlook.com | +20 1140497677 | linkedin.com/in/mahmoudai1 | github.com/mahmoudai1

PROFILE

Software Engineer always seeking to apply my skills and experience to drive companies toward growth and success. Motivated to face new challenges and think about how to deal with them efficiently and smartly. I'm an experienced team player who enjoys collaborating with others and works hard to achieve the best outcomes together.

EDUCATION

Modern Sciences and Arts University (MSA),   2018 – 2022
Bachelor of Computer Science, GPA 3.6/4.0
(Collaboration with the University of Greenwich)

PROFESSIONAL EXPERIENCE

Pylon, *Full-Stack Software Engineer* 🔗   Oct 2022 – present | Remote
Gained practical experience and worked on 20+ complex in-production projects. Designed and developed 8+ procedures and projects from inception. Additionally, I have collaborated with teams on different projects by integrating new features and participating in group brainstorming to address arising issues.

Freelance Full-Stack Software Developer   Jun 2020 – present | Remote
Facilitated the growth of 12+ businesses by developing interactive web applications and systems to manage their inventory, customers, and data. Moreover, resolved legacy applications and returned them to production.

PROJECTS

NFC Customer Card Operations
• Designed a structured solution to optimize the time required for customers to read from and write to the card.
• Developed APIs, SQL procedures, and scripts with the communication of Kafka mechanism.
• Delivered to 500,000+ customers in-production, in order to display their associated data and write charges.
Tools: PHP, Laravel, C#, .NET, Python, ReactJS, OracleSQL, Kafka, Linux

GIS Monitoring
• Delivered interactive GIS monitoring, retrieving detailed information about each meter and providing routes.
• Marked buildings that contains meters, communication elements, and other components.
• Improved the accuracy for detecting the tamper cause by 70%, and reduced the time finding that cause by 85%.
Tools: PHP, JavaScript, Leaflet, Leaflet Clustering, OracleSQL, CSS, Bootstrap

Big Data Handling
• Integrated with TimescaleDB to efficiently manage tables containing over millions of records.
• Improved queries performance by 90% and reduced processing time from 10 to 5 seconds.
Tools: PHP, OracleSQL, TimescaleDB

Online Marketplace, *Included with Enterprise Resource and Content Management System*
• Developed in-production marketplace with a seamless shopping experience, from cart filling to checkout.
• Implemented subscriptions, enabling 20,000+ customers to subscribe to specified services in addition to shopping.
• Handled managing orders, inventory, products, customers, vendors, and website contents.
Tools: PHP, Laravel, Livewire, MySQL, AlpineJS, VueJS, TailwindCSS
Link: armyverse.net 🔗

SKILLS

Languages — PHP, JavaScript, C#, C++, Python

Databases — OracleSQL, MySQL, PostgreSQL, TimescaleDB, MongoDB, SQLite, Firebase

Frameworks — PHPUnit, Laravel, Livewire, ReactJS, VueJS, AlpineJS, NodeJS, .NET, Flask, Flutter, TailwindCSS

Others — GitHub, Docker, AWS, Linux, Nginx, Ngrok, Vite, Apache Kafka, SEO, Tensorflow, Keras, Unity