

# KHALID KHEDR

SENIOR SOFTWARE  
ENGINEER

## ABOUT ME

My name is Khaled Khedr. I have 7 years of experience in software development, with a strong focus on building real-world products. I am passionate about learning and deeply understanding new topics in computer science and software engineering.

## ACHIEVEMENTS

🏆 **E-Commerce Applications**

🏆 **POS Systems**

🏆 **Fintech Systems**

🏆 **Logistics Systems**

🏆 **Selling Systems**

🏆 **Affiliate Systems**

🏆 **missing people system  
with Camera  
AI**

🏆 **ERP Systems**

🏆 **Freegram System**  
Social network for  
Technicians.

🏆 **Sahm System**  
Logistic System

## CONTACT

🏠 Egypt - El-Giza  
☎ +201147897027  
✉ kkhedr01@gmail.com

in <https://www.linkedin.com/in/khalid-khedr-828210139/>

## EXPERIENCE

- 2016 **Smart Geeks**  
Junior Back-end Software Engineer  
Development and building Web Applications .
- 2017 **OKA Truck**  
Junior Back-end Software Engineer, Cairo  
building and Maintenance Logistic Web  
Application.
- 2018 - 2019 **Mttgr**  
mid Back-end Software Engineer  
Development and Maintenance Affiliate  
Systems with laravel , node js and vue.js.
- 2019 - 2021 **Mttgr**  
Senior Back-end Software Engineer  
Development and Maintenance Affiliate  
Systems with laravel , node js and vue.js.
- January 2023 - December 2023 **EasyCash**  
Senior Back-end Software engineer, Cairo  
Development and Maintenance Fintech  
Systems with php native, laravel Framework  
and design microservices with use message-  
broker like RabbitMQ.
- September 2023 - January 2025 **Jobzella**  
Senior Back-end Software Enginee, Giza  
Development Systems with php, Laravel  
Framework and nodejs, nestJs.  
Maintenance Dulani and Jobzella projects with  
adding new Features.
- January 2025 - Present **Wittify.ai**  
Senior Back-end Software Engineer , Giza  
Developing artificial intelligence systems (text  
and voice AI agents) using RAG, vector  
databases, LangChain, and LangGraph, as well  
as building MCP servers.  
Language and Frameworks: node.js - nest.js -  
python - python Fast api.

## EDUCATION



- 2014 - 2020 **Bachelor's in Computing and Informatics -  
Computer Science Department.**  
Faculty of Computing and Artificial Intelligenc  
e at Helwan University

## PERSONAL SKILLS







- ✓ I can work good individually and in a group.
- ✓ I can learn new skills in short time.
- ✓ I like to develop myself always.
- ✓ I can learn anything at good time by myself .
- ✓ I love learning anything can develop from my career.
- ✓ I Have :
  - 1-Time Management skills.
  - 2-Good communications skills .

## LANGUAGES

### HUMAN LANGUAGES

Arabic   
English 

### MACHINE AND COMPUTER LANGUAGES











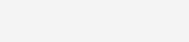
PHP   
JS   
Python   
C   
C++   
Java   
TypeScript 

## SOFTWARE DEVELOPMENT SKILLS



- ✓ I have Experience with Software Engineering.
- ✓ I have Experience with Software Life cycle.
- ✓ I have Experience with design Algorithms and data structure.
- ✓ I have Experience with design uml diagrams.
- ✓ I have Experience with Object Oriented Programming (oop).
- ✓ I have Experience with building large Systems and Maintenance it.
- ✓ I have Experience with building Microservices systems and Distributed systems.
- ✓ I have Experience with design patterns as (Observer Pattern- MVC Pattern- Singleton Pattern - decorator Pattern- Factory Pattern – Facade Pattern – Strategy Pattern - Template Method Pattern - Adaptor Pattern).
- ✓ I have Experience with WaterFull and Agile Software Development.
- ✓ I have Experience with Design Relational Databases (sql - mysql - PostgreSQL) and no sql Databases (mongoDB).
- ✓ I have Experience with development Real time Systems.
- ✓ I have Experience with redis.
- ✓ I have Experience with System Design.
- ✓ I have Experience with Agile and Waterfall Development.
- ✓ I have Experience with Scrum Master.

## WEB APPLICATIONS SKILLS




### Back-end

PHP   
Laravel   
Framework   
Node js   
Restfull - api   
gRPC - api   
Graphql   
Typescript   
Python   
Fast Api   
Nest.JS 

### Security

csrf   
XSS   
sql injecton   
DDoS 

### Front-end

Html - Html5   
Js   
Jquery   
bootstrap   
VueJs   
ReactJS 

## MOBILE DEVELOPMENT SKILLS

- ✓ Development mobile Apps using Flutter.
- ✓ Design UI with Flutter.

## MACHINE LEARNING SKILLS

- ✓ I'm good with solve Regression and Classification problems.
- ✓ I good with mathematics for Data Science.
- ✓ I'm good with Regression Algorithms as (Linear Regression, Random Forest).
- ✓ I'm Good with Classification Algorithms as (knn- SVM).
- ✓ I'm good with machine Learning Performance .
- ✓ I'm good with mathematics for Variance and Bias, Regularization , Cross Validation , Overfitting and Underfitting.

### PROJECTS:

- ✓ -Implementation for Variance , Bias , Regularization, Overfitting , Underfitting, KNN and Linear Regression From Scratch.

## DEVOPS ENGINEERING SKILLS

- ✓ Building Machines with terraform.
- ✓ Building environment with docker and Kubernetes.
- ✓ building Jenkins Scripting.
- ✓ utilization Github actions.
- ✓ utilization AWS Cloud.
- ✓ Deployment Systems with AWS.
- ✓ CI-CD
- ✓ Monitoring
- ✓ Rollbar | Error Logging and Tracking Service

## DATABASE SKILLS

- ✓ Database Design with Normalization scope (First normal form - Second Normal Form - Third normal form - Boyce Codd Normal Form )
- ✓ Design Relational Database schema.
- ✓ I am trying to get optimal database design to become better for execution plan queries.
- ✓ I am good to define any better to use organization file (hash - tree) to make faster query.
- ✓ I have knowledge with database structure in depth.

# AI ENGINEERING AND AI AGENT DEVELOPMENT USING RAG, LANGCHAIN, LANGGRAPH, AND VECTOR DATABASES

- ✓ Designed and developed AI agents capable of handling both text and voice.
- ✓ Integrated Retrieval-Augmented Generation (RAG) architecture to enhance response accuracy by retrieving relevant documents from vector databases.
- ✓ Implemented vector search functionality using advanced vector databases (Pinecone, or Weaviate) for high-speed semantic search and context retrieval.
- ✓ Built structured knowledge graphs and workflows using LangGraph to support multi-step reasoning.
- ✓ building good prompt engineering.
- ✓ fine-tuning of language models on domain-specific datasets to improve response accuracy and contextual understanding.
- ✓ Building MCP using LangChain and Langgraph to coordinate multi-agent workflows with dynamic prompts, memory, and context management for scalable AI agent systems.