Mahmoud M. Hamaad

SOFTWARE ENGINEERING

El Mukattam Cairo , Egypt | Mobile: +20 1096541811 | WhatsApp: +20 1508318032
mahmoudhmad411@gmail.com | **Linkedin:** Mahmoud | **GitHub:** Mahmoud

Objective

Software Engineering with 2+ years of experience in building scalable web applications using Django, React, Node.js, and LLMs. Known for delivering clean, maintainable code and collaborating with cross-functional teams to meet deadlines. Looking to join a fast-paced tech company where I can grow and contribute to innovative projects.

Experience

Web Developer

Greennova — Cairo, Egypt
Jul 2025 – Nov. 2025

- Developing and maintaining smart restaurant management systems integrating NFC-based solutions and digital payment technologies.
- Building and customizing restaurant websites and ordering systems to streamline operations and enhance customer experience.
- Developing and integrating restaurant websites with real-time payment systems and NFC-enabled devices to support seamless ordering and transactions..
- Implementing secure API connections between restaurant sites, payment gateways, and Greennova's internal management platform.

Web Developer

El Safa Egypt — Cairo, Egypt
Jan 2024 – Nov. 2025

- Developed and maintained a custom eCommerce website using WordPress and WooCommerce to sell printer and copier supplies.
- Integrated multiple Egyptian payment gateways including taly and paymob to support local transactions.
- Customized product pages, improved search functionality, and enhanced filtering by stock status, categories, and attributes.
- Built custom WordPress hooks and shortcodes to manage buttons, product availability, and dynamic elements across the store.
- Optimized performance and SEO structure to improve product visibility and user experience.
- Collaborated with the marketing team to align design with brand identity and business goals.

AI Engineer & Full-stack Developer
T1 Dubbing — Remote
2024 – 2025

- Built and maintained a full-stack AI-powered dubbing platform that transforms voice input into emotionally accurate translated speech using the original voice tone (e.g., calm, angry, affectionate).
- Designed and implemented complex prompt engineering strategies for OpenAI API integration to generate accurate tone-aware translations.

- Developed a dynamic frontend using React and TailwindCSS, with backend logic in Django and Python for audio preprocessing and API orchestration.
- Optimized data flow by cleaning and structuring multilingual audio-text datasets for model training and evaluation.
- Deployed and monitored machine learning models responsible for tone classification and text-to-speech generation.

Full-Stack Developer
NFS Auto — Cairo, Egypt
2022 – 2023

- Built a full-stack car rental web platform using the MERN stack (MongoDB, Express.js, Next.js, Node.js).
- Implemented real-time booking and location tracking for available cars.
- Designed a dynamic user interface and responsive frontend.
- Collaborated on A/B testing strategies that improved click-through rates and user engagement.

Education

Bachelor of Engineering in Computer Engineering
Modern Academy for Engineering and Technology – Cairo, Egypt
Expected Graduation: 2026

- Focused on computer architecture, software development, and artificial intelligence.
- Relevant coursework: Data Structures, Algorithms, Database, C++, Python, Computer Architecture, Embedded Systems, Machine Learning.

PROJECTS

1. AI Voice Dubbing
Web App   Nov 2024 – July 2025
Stack: Django, React.js, PostgreSQL, OpenAI API, Google API

- Developed a website for T1Dubbing company.
- Developed a full-stack web application that takes voice input, extracts and translates the text, and returns it with the original voice tone (calm, angry, affectionate).
- Integrated OpenAI API for tone detection and translation logic.
- Built dynamic frontend using React and backend REST API with Django and Database with PostgreSQL.

2. Student Dropout Prediction Model (Machine Learning Internship Project)   June 2025
Tools: Python, Pandas, Scikit-learn, Jupyter Notebook

- Built a predictive machine learning model to identify students at risk of dropping out based on demographic and academic data.
- Applied data preprocessing, feature selection, and model training using logistic regression and random forest classifiers.
- Achieved high accuracy and precision scores; visualized results using Matplotlib and Seaborn.
- Optimized model performance through cross-validation and hyperparameter tuning.
- **GitHub Link**

3. E-Commerce Website (Shopify + Custom Apps)   Jan 2025
Platform: Shopify + Custom Liquid + Shopify API

- Built a modern Shopify-based e-commerce site with custom sections and payment logic.
- Developed custom scripts and integrated inventory tracking system.
- GitHub Link

4. WordPress Website for Tech Products   **July 2024-July 2025**
Platform: WordPress (Astra Theme + WooCommerce)

- Developed, customized Mangment a WordPress website for a printing and copier supplies company.
- Implemented advanced search features, category images, and integrated Egyptian payment gateways.

5. Automotive Company Management Database (University Project)   **2023**
Tools: MySQL, ER Diagrams, SQL Queries

- Designed and implemented a large-scale relational database for managing showrooms, warehouses, and service workshops.
- Created detailed entity-relationship diagrams and complex SQL queries to handle inventory, staff, and maintenance workflows.
- Simulated company operations through database normalization and backend logic

6. Morse Code Encryption & Transmission System (University Project-- Awarded)   **2023-2024**
Technologies: C Language, Arduino, Sensors, LCD Screen

- Built a real-time Morse code encryption system using Arduino microcontroller.
- Implemented software logic in C for encoding and decoding text into Morse code.
- Used sensors and LCD display for sending/receiving encrypted signals between devices.
- 🏆 Won 2nd Place at the Egyptian Universities Technology Forum Competition.

7. Car Rental Web Platform – NFS Auto   **2022-2023**
Stack: MERN (MongoDB, Express.js, Next.js, Node.js)

- Developed a full-stack web platform for a car rental company, allowing users to browse available cars, view locations, and book vehicles.
- Implemented a real-time booking system and vehicle return tracking based on location.
- Built responsive React frontend and RESTful backend with Node.js and Express.
- Integrated MongoDB for dynamic car listings, reservations, and user management.

Skills & abilities

Technical Skills

- **Programming Languages:** Python, JavaScript, C++, TypeScript
- **AI development:** Generative AI , NLP , AI Agants
- **Frameworks & Libraries:** Django, React.js, Next.js, Node.js
- **Stacks:** Full-Stack Django-React Stack (Django backend + React frontend + PostgreSQL/MySQL DB)
          MERN Stack (MongoDB, Express.js, React, Node.js)
- **Web Development Platforms:** WordPress, Shopify
- **Cloud Services:** AWS (EC2, S3, basic deployments)
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools & Technologies:** Git, GitHub, Linux, REST APIs, Postman, VS Code

Soft Skills

- Problem Solving
- Communication
- Leadership
- Time Management
- Team Collaboration

CERTIFICATES

- Machin Learning, AMIT
- Generative AI, ITI
- Frontend (React, HTML, CSS, tailwind css, Wordpress) Udacity
- Node.js, ITI
- Python, ITI

2025
2023
2022
2022
2021

LANGUAGES

- **Arabic: Native**
- **English: B1 Level**
- **Italian: Starter**

PERSONAL INFORMATION:

- Date of Birth: 7-21-2003
- Marital status: single
- Military status: Postponed until 2027