Mostafa Mohamed Salama
Full-Stack Engineer
Location: Cairo, Egypt
Phone: (+20) 1550773695 | **WhatsApp:** (+20) 1204903938
Email:eng.mostafa.mohamed.salama@gmail.com
LinkedIn:linkedin.com/in/mostafa-salama
GitHub:github.com/mostafa-salama

OBJECTIVE

Dedicated and results-driven Full-Stack Engineer with expertise in modern web technologies, including **HTML5**, **CSS3**, **JavaScript** (React.js, Next.js, Angular), and backend technologies such as **Node.js**, **Express.js**, **Nest.js**, and **Django**. Proficient in **Linux administration**, **database management** with **MySQL**, **PostgreSQL**, **MongoDB**, and programming languages like **C**, **C++**, **Python**, and **Java**. Seeking to leverage my skills to contribute to innovative web development and backend system projects in a dynamic environment.

EDUCATION

9-Month Diploma, Information Technology Institute (ITI)

Specialization: Internet of Things (IoT) Applications Development

Graduation: June 2023

Bachelor's Degree in Mechatronics Engineering

Alexandria Higher Institute of Engineering and Technology

Graduation: June 2020

PROFESSIONAL EXPERIENCE

Full-Stack Developer

ITQAN Systems (Hybrid)

September 2023 – Present

- Developed and optimized a **microservices-based SMS application** using **NestJS**, **Next.js**, and **PostgreSQL**,**Redis** resulting in a **40% improvement** in system performance.
- Architected and integrated RESTful **APIs** for seamless communication between front-end and back-end systems.
- Designed and implemented a secure **payment processing system** and **dynamic management dashboard**.
- Led the optimization of **system-wide authentication** and query performance, enhancing application efficiency and security.
- Developed an **AI Voice Chat application** utilizing **Python**, **LangChain**, **Hugging Face**, and **Rasa**. Integrated **speech-to-text** and **text-to-speech** packages, implemented a **vector database** for advanced search capabilities, and enabled multi-modal interactions with the bot, including voice and text. Enhanced user experience by integrating a **knowledge base** and advanced **search algorithms** for efficient data retrieval.

Programming Language Instructor

Sata STEM Academy

July 2023 – Present

- Delivered comprehensive courses in **Python**, **HTML**, **CSS**, and **JavaScript**, driving student engagement through **project-based learning**.
- Provided personalized feedback, accelerating student skill development and understanding of core programming concepts.
- Compiled and submitted detailed progress reports to management on a monthly basis.

SKILLS

Web Development: HTML5, CSS3, JavaScript, Sass, Bootstrap 5
Back-End Technologies: Node.js, Express.js, Nest.js, Django
Front-End Technologies: React.js, Next.js, Angular
Database Management: MySQL, PostgreSQL, MongoDB
Linux Administration: RedHat Admin 1 & 2, Bash Scripting
Programming Languages: C, C++, Python, Java, JavaScript

PROJECTS

- **Expense Tracker App (MERN GraphQL)**: Developed an expense tracker app using MongoDB, Express.js, React.js, Node.js, and Apollo GraphQL.

- **Features**:
    - Type definitions and resolvers for GraphQL schema and data fetching logic.
    - Mutations for modifying data and establishing graph relations.
    - Authentication with Passport.js and MongoDB session store.
    - Global state management with Apollo Client.
    - Error handling on both server and client sides.
    - Deployment on Render.
    - Cron jobs for scheduled tasks and automation.

- **SMS Management System (Microservices)**: Designed and developed a comprehensive SMS management system integrated with various third-party services like SMPP.

- **Technologies**: NestJS, Next.js, PostgreSQL, caching, REST API.
- **Features**:
    - Full-stack development, handling both front-end and back-end components.
    - Built a payment system for processing transactions.
    - Developed APIs for seamless integration with other systems.
    - Implemented caching mechanisms to optimize performance.
    - Managed user authentication and authorization processes.
    - Created a robust system architecture to ensure scalability and reliability.

- **AI Voice Chat Application**: Created an AI-powered voice chat application capable of handling Arabic and English languages.

- **Features**:
    - Integrated a knowledge base to provide accurate answers to user queries.
    - Implemented voice recognition and synthesis to facilitate natural interactions.
    - Developed algorithms to search the knowledge base and generate appropriate responses.
    - Ensured the application could handle multi-lingual inputs and outputs seamlessly.
    - Enhanced user experience by providing instant voice responses to queries.

PERSONAL INFORMATION

- **Military Status**: Completed
- **Driving License**: Valid

LANGUAGE

- **Arabic**: Native

- **English**: Intermediate (writing and conversational)