

Youssef Soliman

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Experience

TIXAE.AI, Senior Software Engineer

September 2024 - Present

- Architect and develop LLM Studio platform integrating AI services for intelligent document processing
- Build scalable microservices infrastructure using Next.js, tRPC, and Express for real-time data processing
- Create advanced document processing pipelines handling multi-format content, including audio/visual transcription
- Integrate vector similarity search with OpenAI embeddings and Supabase for optimized knowledge retrieval
- Develop a real-time chat interface with streaming responses and multi-modal AI interactions
- Design and deploy scalable scraper services with autonomous scaling and heavy-duty data processing
- Implement robust error handling, secure authentication, and workspace management features

Brain Health USA, Software Engineer / Technical Consultant

February 2023 - Present

- Implemented and configured Oracle and NetSuite business systems
- Provided technical consulting for business process optimization
- Developed custom solutions for enterprise resource planning

Mediapro, Senior Computer & Communications Engineer (Freelancer since September 2024)

September 2020 - Present

- Working on the VAR project in the Egyptian League, Cup, and the Confederation of African Football (CAF)
- Responsible for controlling, improving, and maintaining the sound system and sound connections
- Audio and video signal processing
- Hardware connection setup and maintenance
- Testing and integration of the entire system
- Software development, server maintenance, creating scripts, programming controllers, and troubleshooting
- Managing VAR operations

Sprints, Fullstack Bootcamp

Feb 2024 - August 2024

- Responsible for both the back-end development and the front-end development of building websites
- Create user-friendly and visually appealing websites
- Design user interactions on websites, developing servers, and databases for website functionality, and coding for mobile platforms

Freelancer, Software Development & IT

Feb 2022 - Feb 2024

- Handled IT and software tasks for different associations.
- Handled all Tech related issues for big events.
- Web development and overlay designs.

Education

Bachelor's **Computer and Communication Engineering**, Faculty of Engineering, Alexandria University | Egypt

2014-2020

Harvard University Certifications: Introduction to Computer Science, Introduction to Programming with Python, Web development

Skills

Programming Python, C/C++, Java, Matlab, Git, HTML, PHP, CSS, Javascript, Typescript, SQL

Frameworks Django, Flask, React, Next.js

Software Linux, Docker

Languages English, Arabic

Soft Skills Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, coordination.

Latest Projects

Synervus AI

AI Studio Platform, TIXAE

- Developed a comprehensive AI platform that allows users to create workspaces and studios where they can interact with various AI models through customizable templates and settings.
- Utilized **Next.js, React, and TypeScript** with **tRPC and Prisma** to build a scalable architecture for AI model interactions and workflow management.

TIXAE Agents

AI Voice and Text Agents, TIXAE

- Built a platform for creating AI voice and text agents tailored to various industries, enhancing customer engagement and streamlining operations.
- Implemented using **React, TypeScript, and Node.js** with integration of **voice recognition APIs** and **LLM models** for intelligent responses.

PastPal

AI Memoir Writing Service, TIXAE

- Created an AI-powered memoir writing service that helps users create personal books through conversational AI, processing responses and generating printable memoirs.
- Developed using **Next.js and TypeScript** with **AI text generation** and **voice-to-text conversion** technologies.

Agri Tech

AI-Powered Agriculture Platform, Enterprise Project

- Built a sophisticated full-stack application that helps farmers manage and optimize agricultural operations through AI-powered analytics and tools for the Peru government.
- Utilized **React, Node.js, and MongoDB** with **data visualization libraries** and **machine learning integration** for agricultural insights.

AI Interviewer API

AI Interview System, Enterprise Project

- Developed an API solution for Vericant that enables AI voice agents to interview students applying to US universities, streamlining the application process.
- Implemented using **Node.js and Express** with **WebRTC** for real-time communication and **NLP** for interview response analysis.

Employee Toolkit

Employee Resources Platform, Brain Health USA

- Created a comprehensive digital toolkit that provides employees with resources, tools, and workflows to improve productivity and organizational effectiveness.
- Built with **Oracle, NetSuite, and custom integrations** to deliver unified access to enterprise systems and resources.

Browse Pilot

AI-Powered Browser Automation, Personal Project

- Developed an AI-powered browser automation tool that helps teams eliminate repetitive tasks by controlling the browser to complete complex sequences.
- Implemented using **TypeScript, React, and Electron** with **Playwright** for browser automation and **AI models** for process optimization.

DocBase

Documentation Platform, Personal Project

- Built a documentation platform similar to Mintlify that allows teams to create, organize, and share technical documentation with a modern interface.
- Created using **Next.js, TypeScript, and MDX** with **Tailwind CSS** for a customizable documentation experience.

Job Tracker

Job Management System, Personal Project

- Developed a job management system that handles the execution of multiple types of jobs, with features to track status and manage job workflows.
- Built with **Next.js, TypeScript, and Prisma** with **PostgreSQL** for reliable data storage and job state management.

Bug Nest

Issue Tracker, Personal Project

- Created a bug tracking system that helps teams manage and resolve software issues efficiently with customizable workflows.
- Implemented using **React, Node.js, and MongoDB** with **Express** to provide real-time issue tracking capabilities.

Game World

Gaming Platform, Personal Project

- Developed a modern gaming platform showcasing the latest games with detailed information, reviews, and user interactions.
- Built using **Next.js, TypeScript, and Tailwind CSS** with **API integration** for comprehensive game data and information.