Mohamed Khaled
Software Engineer

☎ +20 106 400 5314

✉ mohamed.khaled.ce@gmail.com

🔗 portfolio.mohamed-khaled.com

📅 Date of birth 01/01/1999

Education

From September 2016 to July 2021

Computer Engineering

Alexandria Higher Institute of Engineering and Technology Alexandria, Egypt

Work experience

Since September 2022

Software Engineer

nWeave Software Development Alexandria, Egypt

- Led a team in creating a versatile query builder microservice, simplifying data filtering across various schemas and data sources, enhancing flexibility and efficiency.
- Guided a team in developing a Real Estate web app for property management and sales in the USA.
- Worked on the development of a data warehouse pipeline, aggregating data from diverse sources into a Single Source of Truth database, ensuring data accuracy and consistency.
- Designed and built a comprehensive internal web application with robust data source management and flexible configuration options, optimizing decision-making.
- Created a Microservice for long-running background tasks, enhancing task execution and performance using Nest.js and Redis.
- Developed npm packages for standardizing Nest.js modules across applications, promoting code reusability and consistency.
- Designed and implemented a Chrome extension, boosting sales reps' productivity by integrating their workflow with Google Maps.
- Collaborated with UX designers to enhance the website's UI, resulting in a 20-minute increase in user engagement.
- Managed project deliverables in various short-term sprints and long-term deployments, ensuring timely and efficient execution.
- Optimized an existing time-tracking software by implementing software design patterns and best practices, improving code maintainability and scalability.

From January 2022 to September 2022

Software Engineer

KasedKhair – For General Supplies and Contracting Alexandria, Egypt

- Designed and developed a robust HR System using React, Fast API, and PostgreSQL for efficient employee information management, attendance tracking, vacation requests, and document storage.
- Created a user-friendly interface with advanced filtering options, facilitating data querying and reporting for improved decision-making.
- Implemented a compliance-focused workflow feature, achieving near 100% policy adherence, enhancing operational efficiency and risk management.
- Engineered a real-time notification system with WebSockets, improving communication and responsiveness for HR-related events.
- Developed a Microservice with Celery and Redis, streamlining complex report generation and enhancing scalability.
- Designed modern cloud infrastructure for secure storage of client data, adhering to the latest information security best practices.
- Successfully deployed and managed the HR System on multiple cloud platforms, ensuring high availability and scalability, including AWS, Heroku, Azure Cloud, and Azure DevOps Services.

Personal Projects

Orbitx - a modern Typescript utility library

- **Modular & Performant**: Offers modular utility functions for TypeScript projects, ensuring performance optimization by allowing selective imports.
- **Type Safety**: Built exclusively for TypeScript, it provides strong type support, catching errors at compile time and enhancing code quality.
- **Comprehensive & Modern**: Includes a broad range of utility functions for various programming needs, compatible with modern JavaScript and TypeScript environments.
- **Extensible & Open Source**: Allows for additional custom features and is open-source, fostering community contributions and support.

Personal Projects

Discord TV Series Bot
a Discord bot enhancing the entertainment experience within the Discord platform, simplifying content discovery, keeping users updated with their favorite shows, and delivering detailed TV show information.

- **Reminder Lists**: Empowered users to create lists of favorite shows, enabling automatic reminder messages in Discord channels when new episodes air or become available for streaming, ensuring users never miss their preferred content.
- **Watch List**: Allowed users to build watch lists for TV shows and movies, offering random suggestions based on genre, content type, or entirely random selections from their list.
- **Content Information**: Provided users with quick access to detailed TV show information, aiding in informed viewing decisions.
- **Discord Integration**: Seamlessly integrated into thousands of Discord servers, making these valuable features accessible to a wide community of users.
- **Customization**: Enabled users to personalize content preferences, aligning suggestions and reminders with their unique tastes and interests.

Easy SRT Creator
a desktop app using Python and PyQt to streamline SRT subtitle file creation and editing, enhancing subtitling efficiency and quality.

- **Subtitle Positioning**: Intuitively position subtitles within the SubRip format, simplifying the creation and editing of subtitles.
- **Color Customization**: Easily apply visually appealing and distinguishable colors to subtitles, enhancing text readability in the SubRip format.
- **Undo/Redo Functionality**: Implemented a robust undo/redo feature, supporting up to 50 previous actions, and providing additional control and error correction during editing.
- **Automatic Formatting Correction**: Automatically correct common SRT formatting issues, ensuring valid and compatible subtitle files.
- **Timing Adjustment**: Effortlessly adjust the timing of individual subtitles, groups, or the entire file for precise synchronization with video content.
- **Styling Removal**: Quickly remove styling attributes from subtitles, groups, or the entire SRT file, promoting consistency and adherence to SubRip standards.
- **Color Picker Integration**: Simplified subtitle color changes with an intuitive color picker, eliminating the need for manual color code entry, and making it user-friendly even for those unfamiliar with SubRip formatting.

Skills

Programing Languages

- Typescript
- Python
- Go
- SQL

Other

- Web scraping
- Azure/AWS/Heroku Cloud
- NPM package manager

Technologies

Front-End Technologies

- HTML/CSS/Tailwind/PostCSS
- React/Next.js
- Solid.js/Solid Start
- Svelte/Svelte Kit

Back-End Technologies

- Express.js
- Nest.js
- FastAPI
- Socket.io/Web Sockets
- RabbitMQ/Redis

Languages

Arabic
Mother Tongue

English
Excellent