

YOUSSEF SHAABAN MUSTAFA

SOFTWARE ENGINEER

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PROFILE SUMMARY:

Motivated Junior Software Engineer with a passion for backend development and a strong foundation in Node.js technologies. Eager to transition into a Node.js Developer role to deepen expertise in backend development and contribute to innovative projects. Proficient in building RESTful APIs, utilizing technologies like Express.js and MongoDB for efficient data storage and retrieval. Skilled in frontend development with React.js, HTML, CSS, and Bootstrap, ensuring seamless user experiences. Demonstrated ability to collaborate effectively within teams, communicate technical concepts clearly, and adapt to new challenges. Committed to continuous learning and professional growth, with a Bachelor's degree in Computer and Automatic Control Engineering providing a solid technical background. Excited to leverage my skills and enthusiasm for Node.js development to make meaningful contributions in a dynamic software engineering environment.

PROFESSIONAL SKILLS:

- Programming Languages: JavaScript, TypeScript
  - Backend Development: Node.js, Express.js, Nest.js
  - API Development: RESTful API
  - Frontend Development: HTML, CSS, Bootstrap
  - Real-Time Communication: Socket.IO
  - Software Development Life Cycle (SDLC)
  - Databases: MySQL, MSSQL, MongoDB, Mongoose (ODM for MongoDB)
- Data Structures and Algorithms
  - Version Control Systems: Git, GitHub
  - Effective Communication
  - Time Management
  - Adaptability
  - Problem Solving
  - Continuous Learning
  - Resilience

WORK EXPERIENCE:

- JUNIOR SOFTWARE ENGINEER

EGYPTIAN NAVY INFORMATION SYSTEMS DEPARTMENT

MAY 2023 - PRESENT

- **Legacy Web Application Maintenance:** Manage and documents tasks for a legacy web application built on the .NET framework.
  - **Leadership in New System Development:** Spearhead a software development team to construct a document archiving system from inception to execution, utilizing Node.js and React.js technologies to deliver a high-performing solution.
  - **Innovative Interview Management System Development:** Lead the development of an innovative interview management system from scratch, leveraging Node.js, React.js, and TypeScript technologies. Introduces real-time functionality using Socket.io to facilitate instant updates for secretaries and leaders, ensuring efficient communication and coordination during the interview process.
  - **Comprehensive REST API Documentation:** Create comprehensive documentation for REST APIs using Postman, detailing endpoints, request parameters, response formats, and example usage scenarios.
  - **Enhancement of Coding Practice:** Improve coding practices by migrating JavaScript codebase to TypeScript, promoting type safety and enhancing code readability.
- SOFTWARE ENGINEER INTERN

ORANGE DIGITAL CENTER

MAR 2023 - MAY 2023

- Directed the development of robust backend APIs, employing leading-edge technologies like Node.js, Express.js, and Nest.js.
  - Expertly crafted REST APIs tailored to support diverse entities within the system.
  - Orchestrated the database design process, translating UI/UX designs into tangible solutions, and adeptly created Entity-Relationship Diagrams (ERDs) to steer development efforts.
  - Utilized Prisma ORM and TypeORM to architect and deploy MySQL and MongoDB databases, ensuring optimal performance and scalability.

# PROFESSIONAL PROJECTS

## Project: Electronic Document Archiving System (Jun 2023 - Mar 2024)

- **Project Overview:** Developing a simulated environment for the archival of both incoming and outgoing correspondence within the company, incorporating robust file encryption capabilities.
- **Backend Development:** Architected and implemented scalable backend infrastructure using Node.js, ensuring efficient handling of concurrent requests.
- **Frontend Interface:** Developed a responsive and intuitive frontend interface using React.js, enhancing user experience and accessibility.
- **Code Reliability:** Integrated TypeScript to enforce static typing, ensuring code reliability and maintainability throughout the development process.
- **RESTful API Implementation:** Created RESTful API endpoints with Express.js, facilitating seamless communication between frontend and backend components.
- **Security Measures:** Implemented robust encryption mechanisms to safeguard sensitive information, ensuring data security and compliance with privacy regulations.
- **Version Control:** Managed project versions and collaborated effectively using Git, maintaining codebase integrity and enabling seamless team collaboration.
- **Software Engineering Best Practices:** Adhered to industry-standard software engineering practices and design patterns, ensuring code scalability, maintainability, and extensibility.

## Project: Interview Management System (Dec 2023 - Mar 2024)

- **Project Overview:** An integrated system facilitating the coordination of meetings with our leader by the secretary, complete with real-time notification functionalities.
- **User-friendly Interface:** Developed an intuitive admin dashboard for seamless management of users, units, departments, and job titles.
- **Efficient Workflow:** Customized the system for distinct roles—leader and secretary—enabling efficient task execution.
- **Secretary Functionality:** Managed visitor data effectively, including creation, updating, and note-taking.
- Implemented search capabilities for quick access to visitor information and file attachment.
- Simplified visit cancellation process for smooth communication between secretaries and leaders.
- **Leader Capabilities:** Utilized Socket.IO for real-time notifications, ensuring prompt attention to new visits.
- Empowered leaders to cancel or postpone visits, with corresponding alerts for secretaries.
- **Security and Documentation:** Implemented robust authentication and authorization using JSON Web Tokens (JWT) for system security.
- **Technologies Used:** Node.js, React.js, Socket.IO, JSON, Web Tokens (JWT), Postman API Documentation

## Project: NATOURS Application

- **Project Overview:** Developed a robust RESTful API with filtering, sorting, and pagination, integrated secure credit card payments via Stripe, and implemented advanced authentication and authorization features for user account security.
- **RESTful API Development:** Implemented a fast and scalable RESTful API with filters, sorts, and pagination for efficient data retrieval.
- **Payment Integration:** Integrated Credit Card payments using Stripe, ensuring secure and seamless transactions.
- **Authentication and Authorization:** Implemented advanced authentication and authorization mechanisms, including password reset functionality, to secure user accounts and data.

# EDUCATION:

## TANTA UNIVERSITY | 2022

### Bachelor Degree | Faculty of Engineering , Computer and Automatic Control Department

Grade : Very Good

**Graduation Project :** Developed a B2C eCommerce website and cross-platform mobile application, utilizing Flutter and Bloc for state management, and integrating Stripe for credit card payments. [Link](#)

# COURSES & CERTIFICATES:

- Mean Stack Diploma | Tech Experts (Orange Digital Center)  
Certified In Backend Development Using Node.JS, Express.JS and Angular ODC4245815IN | 2023

# LANGUAGES:

- **Arabic** : Native
- **English** : Fluent