

# Mostafa Abd El-hamid Rihan

Node.js Developer

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## CAREER OBJECTIVE

Ambitious **Node.js Developer** specializing in building scalable, secure, and business-focused solutions. Seeking opportunities to design and implement high-impact web applications, leveraging expertise in **JavaScript/TypeScript, Express.js, and MongoDB** to deliver robust APIs, real-time features, and intuitive frontends. Eager to apply my experience from developing enterprise systems to drive operational efficiency and digital transformation in forward-thinking organizations.

## PROFILE

Computer Science graduate and Backend Engineer with hands-on experience delivering complex, real-world software solutions. Proven track record in collaborating on large-scale systems. Skilled in **Node.js, Express, MongoDB, React, and JWT authentication**, with strong UI/UX sensibilities and a focus on performance optimization. Adept at working across the full development lifecycle, from system design to deployment, with a passion for solving operational challenges through technology.

## EDUCATION

**Helwan University** Cairo, Egypt  
*Bachelor of Computer Science and Artificial Intelligence (GPA: Very Good)* Sept 2019 – July 2023  
– **Graduation Project:** Fitness Monitoring System — Grade: Excellent

## EXPERIENCE

**Backend Developer** Mar 2025 – Present  
*Touch* Cairo, Egypt  
– Collaborated on full-stack solutions using Node.js, Express, MongoDB and Mongoose  
– Led design and implementation of web systems following DevOps and CI/CD practices.  
– Managed deployment pipelines, API integrations, and testing strategies for scalability and reliability.

## INTERNSHIPS

**Software Development – React Frontend Web Developer** Jun 2025 – Dec 2025  
*Digital Egypt Pioneers Initiative – Ministry of Communications and Information Technology* Cairo, Egypt  
– Developed interactive, responsive UI using React 18, Vite, and Tailwind CSS.  
– Integrated REST APIs and WebSocket-based real-time features.  
– Implemented reusable components, state management, and optimized rendering performance.  
– Enhanced accessibility and RTL support for Arabic-speaking users.

## PROJECTS

**Tourism Management System** | Node.js, React 18, Express, MongoDB Apr 2025 – Aug 2025  
– Developed a full-stack tourism management platform tailored for Arabic-speaking markets.  
– Designed a modern Arabic UI/UX with light/dark mode and smooth animations.  
– Built dashboards with real-time analytics, trip status updates, and Recharts visualizations.  
– Implemented trip lifecycle, fleet management, HR attendance with Arabic calendar, and supplier commission tracking.  
– Integrated JWT authentication with role-based access control and real-time notifications.

**Electronic Certification Authority — Ministry of Finance (Egypt)** Mar 2025 – Jun 2025  
– Developed a secure system for electronic signature certificate issuance, renewal, and cancellation.  
– Enabled PDF/SSL export, institutional code management, and secure role-based access with logging.  
– Implemented workflows for inspections, document scanning, and accounting unit migrations.  
– Built dashboards with detailed reporting ensuring high availability and compliance with national standards.

- Pensieve** | Node.js, Express, PostgreSQL, React, TypeScript, JWT Jan 2025 – Marc 2025
- Developed a full-stack application with scalable APIs, authentication, and RESTful services.
  - Implemented JWT-based authentication and deployed to a cloud environment.
- Blogs Platform** | Ruby on Rails, PostgreSQL, Docker, Sidekiq, Redis Sept 2024 – Dec 2024
- Built and deployed a web app focusing on performance optimization and reliability.
  - Used Docker and Kubernetes for efficient containerization and deployment.
- Fitness System** | Python, Machine Learning, Flutter, TensorFlow, OpenCV Aug 2023 – Dec 2023
- Developed a food recognition-based fitness assistant with high accuracy.
  - Used TensorFlow, OpenCV, and Python models.
- Movies Database Website** | C, ASP.NET MVC, SQL, TravisCI Apr 2023 – Aug 2023
- Built a social networking platform for actors and directors with an ASP.NET MVC architecture and SQL backend.
  - Implemented user profiles, search functionality, and dynamic content management.
  - Used TravisCI to automate testing and continuous integration for reliable deployments.
- Optical Character Recognition** | Python, OpenCV Aug 2022 – Jan 2023
- Developed an OCR system using Tesseract and OpenCV to extract text from images with high accuracy.
  - Implemented decision tree-based classification for improved text recognition performance.
  - Optimized preprocessing steps such as noise removal and binarization to enhance OCR accuracy.
- Data Retrieval System** | PHP, MySQL Jan 2021 – Aug 2021
- Designed and implemented a web-based data storage and retrieval system with secure authentication.
  - Created an intuitive UI for data entry, search, and export functionality.
  - Optimized database queries for faster response times and reduced server load.
- Learning Management System** | Java, MySQL Jul 2020 – Jan 2021
- Built an LMS platform using Java for backend logic and Bootstrap for responsive UI design.
  - Implemented features for course management, student enrollment, and grading.
  - Ensured database integrity with MySQL relational schema design and constraints.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (PostgreSQL), JavaScript, TypeScript, HTML/CSS, PHP  
**Frameworks:** React, Node.js, Express, Flask, Ruby on Rails, JUnit, WordPress, FastAPI  
**Developer Tools:** Git, Docker, TravisCI, Google Cloud, Redis, Postman, CI/CD pipelines, VS Code, IntelliJ, PyCharm  
**Libraries:** JWT, Mongoose, TypeORM, Prisma, Devise, Sidekiq, pandas, NumPy, Matplotlib, Tesseract-OCR, PyTorch, TensorFlow, OpenCV, ROS

## INTERPERSONAL SKILLS

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- The ability to clearly express ideas, listen actively, and engage effectively in conversations.
- Organizing tasks efficiently, prioritizing responsibilities, and meeting deadlines without feeling overwhelmed.
- Utilize a variety of analytical techniques to solve problems.
- Develops new strategies and devises improved means of accomplishing results.
- Effectively handles competing priorities.

## CERTIFICATIONS

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Introduction to Data Science – University of Michigan, Jan 2025  
Introduction to Programming Using JavaScript – freeCodeCamp, Jan 2024  
Learn HTML CSS – Codecademy, Jun 2023  
Cyber Security Training – Teleperformance, Jan 2023  
Write Professional Emails in English – Georgia Institute of Technology, Jan 2022