

Islam Mostafa

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Quick learning Software Developer with a strong background in **software engineering** concepts. Once an **educator**, very keen on giving advice to colleagues and **helping others**. Appreciate a progressive forward-thinking diverse company culture where I can employ my skills to help others and learn more. Able to write scalable well documented code to build solid applications and websites. **Well versed in anything from writing code for large-scale cross-platform applications to designing small-scale IoT solutions.**

Skills

- JavaScript | TypeScript | NodeJS | C++ | C | C# | Python | Express | NestJS | React | NextJS | AWS | GraphQL | REST | jQuery | Git | Docker.
- SQL | NoSQL | PostgreSQL | MYSQL | MongoDB | Redis | CI/CD | Jest | Unit Testing | Lambda | OOP | Swagger | Postman | Bash | MQTT.
- Microservices | Monolithic | Frontend | Backend | Embedded Systems | Arabic, English– All professional proficiency or above

Experience

Senior Node.js Developer

Opinov8

UK (Remote) 03/2022 - present

- Implemented **OIDC** authentication via **Okta** and integrated with many **AWS** products like (**SES, STS, Redshift, RDS, S3, QuickSight**).
- Integrated with **12 data store services** to collect over **7M records per hour** and pass through a migration and transformation pipeline to store in one redshift instance using **Node-Red**. And a REST API to provide endpoints guarded by a full role-management system.
- Automated migration process for files generated from the **production line** to **S3** then to redshift with average **8k** files per day.

Senior Node.js Developer-contract

Softeg

UK (Remote) 01/2022 - 03/2022

- Developed a microservice-based web application for **IOT** solutions, and **MQTT** broker that handles **20k M/s** and **10k** active connections.
- Implemented a full **MQTT hardware authenticator** for all their devices and provide real time communication between them.

Senior MERN Stack Developer

Interwebiz

Canada (Remote) 10/2020 - 01/2022

- Created a **microservice-based** web application for freelancing platform with an API in Express.js and MongoDB which serve **20k** active clients and modified a pre-existing React.js front-end to interact with it. And integrate with **SendGrid** API for emailing services.
- Launched a **real-time chat engine** with **file sharing and voice records features**. Also has **hyperlink** highlighting and admin inspector.
- Created a payment processor which integrates with **PayTabs** and money **Exchange** APIs to handle payments for several currencies.

Node.js Developer

Alpha-tech

Turkey (Remote) 05/2019 - 10/2020

- Established many web applications depends on **NodeJS**, express, MongoDB, PostgreSQL. Coded a real-time chat system and a feed system on top of **Socket.io** and Employed JWT-based authentication for the various microservices.
- Completed a full integration with social media auth. And a **GraphQL-like** API constructor which can handle up **22K concurrent** requests.
- Created a web hooker tool to easily integrate with **GitHub web hooks** and handle all the process of CI/CD with less configuration.

Full Stack Engineer - contract

Saudiyor

Saudi Arabia (Remote) 01/2019 - 05/2019

- Developed an interface for the **MetaTrader4** API that integrates with saudiyor.com, a payment processing system, analytics system and designed an admin dashboard for saudiyor.com using EJS. Trading with real-time average transactions **\$50k per hour**.

Embedded Systems Engineer

Future Sharp Vision

Egypt 03/2017 - 01/2019

- Built the embedded system for a **humanoid robot** purposed for deep well exploration and salvage missions. And many other devices like **programmable circuit breaker** which can detect **raise in 1ms**, and a special purpose **CNC** router for quick-prototyping pipeline.

Electrical Engineer

EIC (Egyptian Industrial Center)

Egypt 06/2016 - 03/2017

- Programmed the **control boards** for various proprietary factory machines, including a control unit for a flax machine to save process time which saves **\$5k per day for every machine** and established the full control unit for a new factory for **45 machines** connected in series.

Education

Bachelor of Engineering

Benha University

Qalyubia, Egypt 09/2014 - 07/2019

- Major in Electrical and Computer Engineering (Microprocessor, Operating Systems, Signals, Network, Computer Organization, and Digital Communication).

Mentorship

- Tattwer Academy:** Taught C programming for embedded system purposes. And gave technical advice on graduation projects for students of engineering. Helped the academy grow to multiple locations and placed rigorous curricula for programming and embedded systems. Spearheaded the design and implementation of award-winning robots for international competitions. (01/2019 - 10/2019)
- Programming Tutor:** Trained school-level students to build their own robots. Initiated a maker space, including all planning the layout, purchasing the equipment, installing them, and organizing the space. And managed the various technical branches. (04/2018 - 01/2019)

Others

- JSNAD Certification:** Got Certification from **Linux Foundation** for passing the **JSNAD** PSI-online test in **NodeJS** core. (08/2022)
- 1st Place:** won the 1st place on **Landmine-Free** International Competition for building a minesweeper robot. Kuala- Malaysia (10/2018)
- 2nd Place:** won the 2nd place on **Landmine-Free** International Competition for building a minesweeper robot. Madrid -Spain (10/2017)