Tarek Ragab

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SUMMARY

Freelance Full-Stack Software Engineer with expertise in .NET, React, Azure, and Scalable Data-Driven Solutions. Proven record in delivering end-to-end web applications and client-focused software.

SKILLS

- **Programming Languages:** C#, C++, JavaScript, TypeScript, Dart, Python
- **Frameworks & Platforms:** .NET, Node.js, React, Flutter
- **Cloud & Serverless:** Azure Function Apps, Azure Service Bus, Azure Web Hosting
- **Data & APIs:** SQL Server, RESTful APIs, MQTT, Data Processing.
- **Architecture & Development:** OOP, OOD, UML, Agile, Scrum, Waterfall.
- **Version Control & CI/CD:** Git, GitHub, GitHub Actions
- **Other Tools:** MS Office, Markup languages, Documentation Practices

WORK EXPERIENCE

Software Engineer (Remote), Upwork   Jan 2023 – Present
– Delivered full-stack solutions using C#, .NET, Full IoT solutions, and SQL Server.
– Collaborated with clients to define project scope, timelines, and deliverables.
– Built data processing tools and automated workflows with Python and Azure Function Apps.

Full-Stack Software Engineer, RES-VA   Jun 2024 – Present
– Developed and maintained full-stack web applications using C#, .NET, React, TypeScript, and SQL Server.
– Built and deployed serverless data workflows with Python and Azure Function Apps.
– Optimized SQL queries and backend logic to enhance API performance.

Mid Level IoT Firmware Engineer (Full-time), SudoTechs   Jun 2022 – Oct 2024
– Designed IoT systems architecture based on client requirements.
– Developed firmware for multiple microcontrollers.
– Delivered tailored IoT solutions to address client challenges.

IoT Instructor (Part-time), CIC, Cairo   Oct 2022 – Oct 2023
– Designed and delivered practical IoT training curriculum.
– Taught IoT architecture, development, and ecosystem concepts to 100+ students.

Digital Fabrication Trainee (Internship), Sector B5   Jun 2021 – Sep 2021
– Worked with 3D printing technologies (FDM, SLA) and CNC machinery.
– Designed and built an autonomous maze-solver robot.

PROJECTS

Lead Generation Reporting App   *(RES-VA)*

Developed a reporting platform using **.NET, SQL, Redis, React TS** to visualize and export real-time call, lead, and agent productivity metrics.

End-to-End Data Pipeline   *(RES-VA)*

Built a scalable **Python**-based pipeline with **Azure Function Apps**, automating ingestion, transformation, and export of CRM and dialer data.

Loan System Reporting App   *(SANAD Finance)*

Implemented a high-performance reporting application using **SQL, Python, Elasticsearch** to track loans, installments, cashflow projection, and customers' profiles.

Human Resources Management   *(Future of Egypt)*

Developed a responsive HR management platform with **Flutter Web** frontend and **Node.js** backend, heavily reliant on **SQL** with extensive use of **views** and **stored procedures** to manage and streamline employee data and workflows.

Licencer Desktop App   *(Boreal Laser Inc.)*

Created a cross-platform licensing management desktop application using **Flutter Desktop**.

IoT Dashboard   *(Boreal Laser Inc.)*

Designed a real-time IoT monitoring web dashboard using **Vanilla HTML, CSS, JS** to visualize industrial device telemetry.

Industrial Web Dashboard   *(Graduation Project)*

Developed an industrial process visualization tool using **Node.js, React.js** for efficient real-time data handling and UI rendering.

Maze Solver Robot pi-bot   *(Sector B5)*

Designed and programmed an autonomous maze-solving robot using **C++** for embedded control and sensor integration.

EDUCATION

2018 – 2024   Bachelor of Telecommunication and Electronics Engineering at **Helwan University**, Cairo, Egypt.

LANGUAGES

Arabic   C2 – Native / Bilingual
English   C1 – Full Professional