AHMED MOHAMED FAWZY

SOFTWARE ENGINEER

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Military Status: **Exempted**

OBJECTIVE

A motivated Junior Full Stack Engineer with expertise in HTML, CSS, JavaScript, React, Node.js and SQL databases. Skilled in building responsive UIs for Front-end, scalable back-end systems, and seamless API integrations. Passionate about creating user-focused solutions and eager to contribute to innovative projects in a dynamic environment.

EDUCATION

Bachelor of Communications and Electronics Engineering. | Faculty of Engineering, Alexandria University.   *2019 – 2024*

- Graduation Year: **2024.**
- Grade: **Very Good.**

Graduation Project: **V2V Communications (Vehicle to Vehicle Communications) – Embedded Linux Project.**

- The Project is Sponsored by **Valeo Egypt**.
- Grade of GP: **A+.**

TECHNICAL SKILLS

Full Stack Development

- HTML5, CSS3, JavaScript, Bootstrap, SQL, C/C++, C#, Java, Java Spring Boot, Python, and PHP.
- UI/UX design principles with experience in Responsive Design for Front-end.
- RESTful APIs, MVC and MVVM Patterns for Web Applications.
- Object-Oriented Programming (OOP) Concepts and SOLID Principals.
- Git and GitHub.
- MySQL and SQL Server.
- Familiar with cloud computing services like AWS, Microsoft Azure, and Google Cloud Platform (GCP) for hosting, deployment, scalability, and performance optimization.
- Familiar with CI/CD pipelines using tools such as Jenkins, GitHub Actions, and GitLab CI for automated testing and deployment.

Software Tools & Platforms

- Visual Studio Code, Postman, IntelliJ IDEA, MySQL, Eclipse, MATLAB/Simulink, Multisim, Proteus, Eagle, LabVIEW, TensorFlow, and STK.

Communication Systems

- Expertise in Wireless Communication Technologies & Generations, Mobile Communications, Antenna Design, Microwave Systems, Visible Light Communication (VLC), Optical Communication Systems, and Digital Signal Processing (DSP).

Artificial Intelligence & Data Science

- Knowledge in Machine learning, Artificial intelligence (AI), Natural Language Processing (NLP), Deep Learning, and Data Science.
- Knowledge of Large Language Model (LLM) and Convolutional Neural Network (CNN).

Automation & Robotics

- Competent in Automation Systems and Robotics Applications.

Networking

- Strong knowledge of Computer Networks and Protocols.

Semiconductors & Circuit Design

- Familiar with Analog and Digital Integrated Circuits (AIC/DIC), VLSI Design, Semiconductor Design, PCB Layout, and Electronics.

Office Applications

- Proficient in Microsoft Word, Excel, and PowerPoint for documentation, data analysis, and presentations.

WORK EXPERIENCE

Frontend Developer – Upwork, Freelance Yard.   *Sep 2024 – Present*

- Designed and developed responsive and user-friendly websites for diverse clients across industries, ensuring seamless performance across devices and browsers.
- Collaborated with clients to translate their vision into functional, visually appealing, and accessible user interfaces.
- Utilized modern frameworks and tools such as React.js, HTML, CSS, and JavaScript to deliver custom web solutions.

Robotics Instructor & Mentor - BA.   *Mar 2023 – Aug 2023*

- Designed interactive robotics workshops and courses for children aged 8 to 16, focusing on foundational concepts in robotics, programming, and problem-solving.
- Developed age-appropriate lesson plans using tools like LEGO Mindstorms, Arduino, and Scratch to teach the basics of robotics and automation.
- Encouraged creativity and critical thinking through hands-on projects where students built and programmed functional robots to complete specific tasks.

COURSES

Frontend Developer – DEPI (Digital Egypt Pioneers Initiative).   *Apr 2024 – Oct 2024*

Topics: HTML, CSS, JS, Framework, Bootstrap, Figma, UI/UX Design, Angular, English, and Soft Skills.

Fundamentals of Embedded Systems (AUTOSAR) – Engineers Syndicate.   *Sep 2023 – Oct 2023*

Topics: Embedded Linux, Classical, Adaptive AUTOSAR Architecture, Interfacing, Comm. Protocols, RTOS, and Automotive Industry.

Embedded Systems Course – ITI.   *Aug 2023 – Sep 2023*

Topics: C Programing, E.S. Interfacing, Comm. Protocols, E.S Tooling and Testing, and Automotive Bus Technology.

Online Courses - Coursera.

- Web Development.
- Advanced JavaScript.
- Generative AI.
- HTML and CSS.
- Intro to Angular.
- Machine Learning.
- Data Science and Python.
- Java Spring.
- Artificial Intelligence.
- Database and SQL.
- UI/UX Design.
- Data Science with Python.
- PHP Laravel.
- App Development.
- C#.

TRAININGS

Java Spring (Advanced) – EBI (Egyptian Banking Institute).   *Sep 2024 – Oct 2024*
EBI - CBE (Central Bank of Egypt) - Alexandria.

Topics: JVM, OOP, Spring Boot, Microservices, Spring Data, Web Servers, Spring Security, Testing, Maven, and Dependency Management.

Embedded Linux – Valeo.   *Nov 2023 – Aug 2024*
Valeo Egypt –Smart Village.

Topics: Embedded Linux, C++, Testing, Integration, Communication Protocols, and Architecture Design.

Electrical Power Engineering – Electricity Co.   *Sep 2022 – Oct 2022*
West Delta for Electricity Generation Co. – Alexandria.

Topics: Electric Machines, Generation, Safety, Control, Distributors, Power Stations, Transformers, and Transmission Lines.

Embedded Systems – Siemens.   *Feb 2022 – Mar 2022*
Siemens and ETISAL Organization for Technology.

Topics: Embedded C Software, Microcontrollers, Automotive Industry, and Electric Vehicles (EV).

Information Technology (IT) – ECFC.   *Sep 2021 – Oct 2021*
ECFC (Egyptian Copper Factories Company) – Alexandria.

Topics: System Administration, User Domain, Servers, Routing, Switching, Firewalls, and IT Security.

PROJECTS

GP Project 🔗 **Link**

- Developed and implemented communication protocols using C++ to enable real-time data exchange between vehicles.
- Designed efficient message encoding/decoding mechanisms and integrated GPS and sensor data for accurate positioning.
- Ensured low-latency, reliable communication and conducted extensive testing to meet real-time performance and system requirements.
- Collaborated with hardware engineers to interface the application with V2V communication modules.

Kayan Website 🔗 **Link**

- Developed and designed the website using HTML, CSS, and JavaScript, Bootstrap ensuring a responsive and interactive user experience.
- Integrated back-end services to enable smooth functionality and optimized the site for performance and cross-device compatibility.
- Collaborated with the team to meet deadlines and deliver a polished, user-friendly web application.

MetaFIX Digital Solutions 🔗 **Link**

- Designed and implemented the website using HTML, CSS, and JavaScript, ensuring a seamless and responsive user experience.
- Developed back-end features using Spring Boot, focusing on secure authentication and optimized dependency management.
- Integrated back-end services to ensure reliable functionality, improved performance, and scalability.
- Conducted cross-browser and device compatibility testing to deliver a polished and user-friendly web application.

Bankio Digital Bank 🔗 **Link**

- Made a responsive application, optimized for performance, and met security standards for handling sensitive user information.
- Contributed to the development of a banking application using MVC architecture with Java Spring for the back-end.
- Focused on building a secure and user-friendly interface, integrating back-end services to manage data efficiently.
- Collaborated with the team to ensure smooth functionality and deliver a robust, reliable banking solution.

ACTIVITIES

- Served as the class representative for "COMMUNICATION 24" from 2021 to 2024.
- Active member of IEEE SSCS Alex SC, contributing to both the Communication and Machine Learning sub-teams.
- Previously led the AC Committee in the EED | Electrical Engineering Department in 2023.
- Volunteer at Bibliotheca Alexandria, SDSP, and PSC.
- Participated as a volunteer at TECHNE Summit 22 held at the Bibliotheca Alexandria.
- Organized the Bibliotheca Alexandria International Book Fair for three consecutive years.