Mohamed Sultan

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EDUCATION

- **Technological University of the Shannon** — Athlone, Westmeath
  Bachelor of Engineering (Honours) in Software Engineering — *Sept. 2023 – June 2024*

- **Technological University of the Shannon** — Athlone, Westmeath
  Bachelor of Engineering in Computer Engineering — *Sept. 2019 – Nov. 2022*

TECHNICAL SKILLS

- **Languages**: JavaScript, HTML, CSS, Python, Java, SQL, C++

- **Frameworks & Technologies**: .NET, AngularJS, Bootstrap, Docker, Git, Linux-based OS, Agile Methodology

- **Databases**: SQL Server, Oracle, PostgreSQL, MongoDB

- **Tools**: Visual Studio, JUnit, OpenWeatherMap API, Wolfram Alpha API

PROJECTS

- **House Alarm System**: Designed and implemented a home security alarm system using Arduino microcontrollers, sensors, and other components. Programmed intrusion detection, alarms, and mobile alerts, showcasing proficiency in digital electronics and embedded programming.

- **Autonomous Quadcopter**: Led a team to develop an autonomous drone using Arduino boards, sensors, and motors. Implemented flight control algorithms, obstacle avoidance, and GPS navigation, highlighting skills in digital electronics and real-time systems development.

- **Newsagent Management System**: Developed a Java-based application using Agile and Scrum methodologies to create an all-in-one management system for a newsagent. The system includes modules for Accounts, Publications, Delivery Area, Subscriptions, Billing, Delivery Docket, Warehouse management. Conducted comprehensive testing using JUnit and other testing methods to ensure functionality and reliability.

- **Responsive Web Design Showcase**: Designed and implemented a website focusing on responsive web design principles, incorporating CSS grid layout and flexbox to create a visually appealing and user-friendly interface. Explored techniques to adapt the layout and content seamlessly across various screen sizes and devices.

- **Weather App**: Developed a dynamic Weather App website using HTML, CSS, and JavaScript, integrated with the OpenWeatherMap API. Users can search for any city and view hourly temperature and humidity updates. Implemented responsive design techniques to ensure optimal viewing experience across different devices.

- **Plato Personal Assistant**: Developed a Python-based personal assistant named Plato, utilizing speech recognition, text-to-speech conversion, and various libraries to perform tasks and provide assistance through voice commands.

EXPERIENCE

- **Technological University of the Shannon** — Athlone, Westmeath
  Student Ambassador — *Sept 2022 - Present*
  - **Leadership & Communication**: Acted as a positive brand ambassador, providing insights into university life and academics to prospective students and parents. Managed event logistics and participant engagement.

- **Marks and Spencer** — Athlone, Westmeath
  Sales Advisor — *Nov 2023 - Dec 2023*
  - **Customer Service**: Delivered exceptional customer service, utilizing product knowledge to boost sales and contribute to store performance.

LANGUAGES

- **English**: C1 (Advanced)

- **Arabic**: Native