

Wael Haj Mohamed

Software Engineer

Full Stack Development · Data & Integration

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PROFILE

Software developer with over three years of experience building applications for purchasing, production, warehousing, logistics and quality. I develop React interfaces and Python/Flask backends, integrating SQL Server, Microsoft Dynamics NAV/Business Central and WMS platforms. My work spans requirements, development, deployment and maintenance, with a focus on usability and data quality.

TECHNICAL SKILLS

Web development: Python, JavaScript, React, Flask, Dash, Jinja, HTML, CSS, REST APIs, JWT

Data & integration: SQL Server, T-SQL, MySQL, pandas, SQLAlchemy, pyodbc, SQL Server Agent; Dynamics NAV/Business Central, WMS

Tools & environments: Docker, Ubuntu/Linux, NGINX, Git, GitHub, Visual Studio Code

IoT & machine learning: Raspberry Pi, Arduino, ESP8266, MQTT, TensorFlow

PROFESSIONAL EXPERIENCE

Pinto S.r.l. | Software Engineer

March 2023 - Present

- Develop web applications, dashboards and APIs for purchasing, production, logistics and quality workflows.
- Integrate ERP, WMS and data warehouse records for orders, stock, transfers, shipments and production.
- Process data with pandas, develop T-SQL queries and views, and manage scheduled updates with SQL Server Agent.
- Implement authentication, roles, validation and Excel/PDF reports; maintain Docker applications on Ubuntu with NGINX.

Djagora FabLab | Final-year internship

February 2022 - July 2022

- Developed a machine-monitoring system with facial recognition and MQTT communication on Raspberry Pi and ESP8266.

DigiDev | Web development internship

June 2021 - July 2021

- Developed an e-commerce website with product catalogue and transaction management.

SELECTED PROJECTS

Applications developed at Pinto S.r.l.

Purchasing Dashboard & Pinto BI

Stock, requirements, supplier orders and transfer analysis. Consumption, lead-time and reorder indicators, with filters and Excel reporting.

Production & Planning

Recording output, shifts, lines and downtime; capacity calendars and planned-versus-actual comparisons, with tools for staff scheduling and sending orders to machines.

Warehouse & Picking Lists

Order-status tracking and picking lists for accessories, slats and guides. Availability, reservations, pallets, material calculations, labels and operational documents.

Customer Claims Management

React and Flask application linked to orders and delivery documents, with status tracking, line valuation, additional costs, duplicate checks and exports.

Cutting & Delivery Optimisation

Linear Cutter for linear cutting plans. Delivery planning by driver and location, accounting for vehicles, zones, distances and driver-specific cost rules.

Product Certification Documents

Generation of certification PDFs from company records, integrated with document consultation and management workflows.

EDUCATION

Degree in IoT and Integrated Systems

University of Monastir, Tunisia · 2019 - 2022

Secondary School Diploma

Sfax High School, Tunisia · 2016 - 2019

COURSES & ADDITIONAL TRAINING

CCNA 1 & 2 · Deep Learning Specialization, Coursera
Business Model Canvas & Strategic Thinking · Entrepreneurship & Lifestyle

LANGUAGES

Arabic: native · Italian: fluent
English: good command · French: good command

I authorise the processing of the personal data in this CV for recruitment and personnel selection purposes, in accordance with Regulation (EU) 2016/679 (GDPR) and Italian Legislative Decree 196/2003, as amended.