Mohammad Hajjo

LinkedIn | GitHub | Portfolio

Summary

A dedicated and analytical software developer with a strong foundation in computer engineering and mobile IT, I bring hands-on experience in system development, embedded systems, and mobile applications. Skilled in Java, Python, C/C++, and system design, I thrive in collaborative environments and excel at solving technical challenges with a structured, user-focused approach. With a proven ability to support and guide others through academic and technical mentoring, I am eager to contribute to innovative teams delivering impactful, efficient, and scalable digital solutions.

Technical Skills

Programming Languages: Java, Python, Linux, NetLogo, HTML, CSS, JavaScript, C, C++, C#, Assembly, MATLAB

Embedded Systems Frameworks: ESP-IDF, FreeRTOS, STM32Cube HAL, Zephyr RTOS, Mbed OS, Micropython

Libraries & Tools: Git, Docker, Visual Studio Code, Node.js, Bootstrap, Figma

Experience

Supervisor Jun 2021 – May 2025
ELEDA STADION *Malmö, Sweden*

- Led kiosk operations during large-scale events with thousands of visitors.
- Managed inventory logistics, restocking, and supply coordination under pressure.
- Assigned and coordinated staff schedules based on experience and role suitability.
- Ensured compliance with food safety and hygiene standards across multiple units.
- Resolved operational issues quickly to maintain smooth event flow and customer satisfaction.

Teaching Assistant Aug 2023 – Jun 2024
MALMÖ UNIVERSITY *Malmö, Sweden*

- Supported instruction in embedded systems and programming labs.
- Provided one-on-one technical guidance in coding, debugging, and hardware integration.
- Reviewed and evaluated student assignments, offering structured, constructive feedback.
- Troubleshot complex hardware/software issues during practical sessions.
- Facilitated student understanding of electronics, microcontrollers, and system design concepts.

Private Tutor Nov 2023 – Jun 2024
STUDENTEA (org nr: 969792-3028) *Malmö, Sweden*

- Delivered personalized tutoring in mathematics, physics, and programming.
- Adapted teaching methods to suit individual learning styles and academic goals.
- Supported students with test preparation, assignments, and conceptual understanding.
- Extended contract to assist high school students based on strong performance.

Project

Letter Recognition for Handwriting on Embedded System Using a Machine Learning Model Spring 2025
University Thesis Project *Python, PyTorch, ESP-IDF, ML*

- Built a real-time handwriting recognition system on ESP32-CAM using a custom written CNN.
- Applied model quantization and data augmentation to fit tight memory and performance constraints.
- Developed a fully standalone, low-power embedded system with on-device image capture, processing, and display.

Education

Malmö University Malmö, Sweden
B.S. OF SCIENCE IN ENGINEERING IN COMPUTER SCIENCE *Aug 2022 – Jun 2025*