Saly Masri

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Profile

Computer Engineer (M.Sc. CSE, KTH exp. 2026) with breadth across embedded & systems, software/full-stack, and data/AI. Experienced building on Linux, delivering REST APIs and UIs, and designing ML pipelines—skilled in Python/ML, C/C++, Java/PHP, and networking/security. Focus on clean code, reproducibility, and measurable outcomes.

Skills

Embedded & Systems: Embedded Linux, C/C++, Python, real-time/latency, IEEE 1588/PTP, TCP/IP, Wireshark/tcpdump, GDB • Full-Stack: Python, Java, PHP, JS (ES6+), FastAPI/Flask, Jakarta EE (REST), Android, Docker, CI/CD, OOP • Data/AI: pandas, NumPy, scikit-learn, XGBoost, PyTorch, feature engineering, CV, time-series • Datastores/BI: Post-greSQL, MySQL/MariaDB, MongoDB, Power BI • Workflow: Git/GitHub, Agile/Scrum, reproducible pipelines

Experience

Intern — Development Engineer

Jun 2025 — Aug 2025

Megger AB, Sweden

- Developed **embedded Linux** tools and **Python** scripts for time-synchronized data acquisition; automated parsing, logging, and dataset generation.
- Performed **protocol-level debugging** (TCP/IP, Ethernet) with Wireshark/tcpdump; profiled **latency/jitter** and validated system behavior.
- Improved **software reliability** via modular design, **unit/integration testing**, and Git workflows; collaborated in an **Agile** team and documented interfaces and results.

Tutor — STEM Subjects

Aug 2022 — Present

Stiftelsen Läxhjälpen, Sweden

• Coached students in mathematics and science; communicated technical ideas clearly and tracked progress.

Education

KTH Royal Institute of Technology

Stockholm, Sweden

 $M.Sc.\ Eng.\ (Computer\ Science\ &\ Engineering),\ exp.\ 2026$

Mälardalens University

Västerås, Sweden

B.Sc. Analytical Finance, Jun 2021

Selected Projects

Full-Stack Restaurant Platform

Jakarta EE (REST), MariaDB, JSF/HTML/CSS/JS, Android (Retrofit) | GitHub

- Built customer site, admin dashboard, and mobile apps with CRUD, authentication, workflows, and real-time status over a modular REST API.
- Implemented database schema, ORM, input validation, error handling, Docker/CI/CD basics; delivered responsive UI and clean OOP code.

$Hierarchical\ LLM\ +\ RL\ Agent$

Python, PyTorch (PPO), JSON schemas, latency-aware controller | Academic

- Built hybrid controller where an **LLM** selects sub-goals and **RL** executes navigation/combat/flee; enforced event-driven switching and dwell-time.
- Focused on **real-time constraints**, metrics (latency, switches/min, dwell), and robust JSON I/O; applied testing and structured logs for reproducibility.

Security & Protocols Lab

Wireshark, BIND/DNS, Linux, GDB, Docker | Academic

- Configured **DNS** zones/delegation and analyzed **TCP** handshake, retransmissions, congestion control; documented with packet-level evidence.
- Implemented **buffer overflow** & control-flow hijacking PoCs, static/dynamic analysis, and basic mitigations (hardening, input validation).

Languages

Arabic (Native) • English (Full Professional) • Swedish (Full Professional)