

HUSSEIN HASSAN

Software & AI Engineer · Computer & Communication Engineering

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PROFESSIONAL SUMMARY

Fresh graduate in Computer and Communication Engineering (Software & Network specialization) with 1 year of hands-on industry experience at a BMW-partnered AI company. Proven track record delivering production-ready AI pipelines, scalable microservices backends, and full-stack mobile/web applications. Comfortable owning features end-to-end — from dataset creation and model training to API design and mobile integration.

EXPERIENCE

Artificial Intelligence Engineer | **Inmind.ai** · Mkalles, Lebanon

Nov 2025 – May 2026

- Worked within a 10+ person team training and integrating YOLO, ResNet, Vision Transformers, and OCR models into production pipelines.
- Built and preprocessed multiple datasets (10K–40K samples each), achieving 89%+ model accuracy across classification tasks.
- Contributed to a BMW 3d computer-vision project as part of a cross-functional mission.
- Managed experiments with MLflow and containerized deployments via Docker; maintained version control with Git/GitHub.

Backend Engineering Intern | **Inmind.ai** · Mkalles, Lebanon

Jun – Aug 2025

- Built scalable .NET microservices using Clean Architecture, DDD, CQRS, OData, caching, and RabbitMQ.
- Implemented Keycloak-based authentication/authorization; integrated PostgreSQL, Entity Framework, and Seq for structured logging.
- Shortlisted for a 6-month position at BMW Munich — retained at Inmind.ai as AI Engineer based on internship performance.

Full-Stack Mobile & Web Intern | **Nokia / DualCom Consulting** · Khaldeh, Lebanon

Jun – Sep 2024

- Built a full-stack social media app: Android (Kotlin/Java), React.js web, Firebase, real-time chat, and Google Maps integration.
- Delivered features covering user interaction, location services, poll analytics, and real-time communication.

KEY PROJECTS

Fire Helmet – IoT Firefighter Safety System — *Raspberry Pi · MQTT · Java · Python · LLM · RAG · ASP.Net Core · PostgreSQL*

- End-to-end IoT system integrating GPS, gas, temperature, humidity, and motion (MPU-6050) sensors with real-time MQTT streaming.
- Trained an ML risk-classification model (Safe / Warning / Danger) and deployed an LLM voice assistant using RAG.
- Real-time sensor data streamed via MQTT to a mobile app and backend dashboard for emergency monitoring and support.

DiaGuard – AI Health Detection Platform — *IoT · AI Classification · Java · Mobile · ASP.Net Core · PostgreSQL*

- FYP: at-home health detection combining IoT hardware, AI classification, and a mobile app — designed full system architecture.

Money Transfer Platform — *Laravel · React.js · Stripe · Google Cloud Vision · WebSocket · MySQL*

- Led a 5-person team to deliver a production-ready platform with real-time chat, KYC verification, and currency conversion.

AI-Integrated Job Posting Platform — *ASP.NET Core · Llama 3 · Stripe · MySQL*

- AI-enhanced job platform using Llama 3 for profile and listing optimization; premium membership with Stripe billing.

Student Information System — *React.js · Node.js · Express.js · MySQL*

- University portal with enrollment, schedule conflict detection, and admin-controlled course management.

EDUCATION

Bachelor in Computer & Communication Engineering - Master-level program (BE)

2022 – 2026

Antonine University, Baabda, Lebanon · Specialization: Software & Network Engineering

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C#, JavaScript, C++

AI / ML: YOLO, ResNet, Vision Transformers, OCR, LLMs, RAG, scikit-learn, MLflow

Backend: .NET / ASP.NET Core, Node.js, Spring Boot, Laravel, PostgreSQL, MySQL, MongoDB, RabbitMQ, Docker, Keycloak, CQRS, DDD

Frontend / Mobile: React.js, Kotlin Android, Firebase, Room, Retrofit, Google Maps SDK

DevOps & Tools: Git, Docker, MLflow, Seq, MQTT, Raspberry Pi

Soft Skills: Fast Learner, Problem-Solver, Detail Oriented, Team Player and Critical Analysis skills

Languages: Arabic (Native) · English (Fluent) · French (Advanced – DELF B2)