

# John El Hachem

## Computer & Communications Engineering Student

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### Professional Summary

Fourth-year CCE student at USJ-ESIB specializing in AI and Software Engineering. Strong foundation in distributed systems and full-stack development, validated by award-winning projects and production management experience. Pursuing **Summer 2026 internship** to apply technical expertise and deliver measurable impact.

### Education

- Bachelor of Engineering in CCE** 2022 – Expected 2027  
*Saint Joseph University – ESIB*  
– Concentration: Artificial Intelligence Track with Software Engineering Electives.  
– **Relevant Coursework:** Computer Vision, Machine Learning, Deep Learning, Data Structures (DSA), Mining Massive Datasets, Natural Language Processing (NLP).
- Lebanese Baccalaureate – General Sciences** 2022  
*Collège des Frères Mont La Salle* *Ain Saadeh, Lebanon*

### Skills & Strengths

- Languages:** Python, C++, JavaScript (TypeScript), SQL, MATLAB, HTML/CSS, Tkinter
- AI & Analytics:** PyTorch, TensorFlow, Scikit-learn, OpenCV, YOLO, MapReduce, Transformers, GANs
- Web & Cloud:** React.js, Node.js, Express, Tailwind CSS, AWS (Lambda, IAM, CLI)
- Tools & Infrastructure:** Git, Docker, Linux, ROS2, NVIDIA Isaac Sim, PostgreSQL, MongoDB, SQLite
- Core Concepts:** OOP, Data Structures (DSA), Networking (CCNA1), Full-stack Development
- Spoken Languages:** English (Fluent), French (Fluent), Arabic (Native), Spanish (Basic)
- Soft Skills:** Leadership, Teamwork, Problem-solving, Time Management, Adaptability

### Experience

- Robotics Intern** Feb 2026 – Mar 2026  
*InMind Academy - inmind.ai* *Mansourieh, Lebanon*  
– Secured placement in competitive **Robotics Navigation** track focusing on autonomous systems.  
– Developing modular robotics applications using **ROS2, C++, and Python** within **NVIDIA Isaac Sim**.  
– Deploying scalable solutions using **Docker** containers and integrating AI for navigation.
- Library Assistant – E-Repository Management** 2024 – 2025  
*Saint Joseph University (ESIB)* *Beirut, Lebanon*  
– Directed digital repository operations serving **500+ users**, achieving **100% system availability**.  
– Optimized system accessibility via IT coordination, increasing resource engagement by **20%**.

### Projects

- LegalMind – ContractNLI Risk Analyzer** Oct 2025 – Nov 2025  
*NLP Analysis Engine (RoBERTa, SBERT, CNN-BiLSTM, Gradio)*  
– Architected multi-stage NLI pipeline utilizing **ContractNLI dataset** benchmarking **RoBERTa** models.  
– Engineered interactive **Gradio** dashboard benchmarking **17 risk hypotheses** with high precision.  
– Implemented **legal heuristics** to generate automated risk reports from PDF documents.
- Precision Multimeter** Jan 2025 – May 2025  
*Embedded Systems (C++, Arduino Mega)*  
– Prototyped precision digital device delivering **±1% accuracy** via Wheatstone bridges.
- FieldSpot – Sports Reservation System** May 2024 – Jul 2024  
*Full-Stack Web App (React, TypeScript, Supabase)*  
– Secured **1st Place Ranking** at ESIB for real-time solution featuring geospatial search.  
– Migrated legacy code to modern web architecture, integrating AI-optimized data structures.

### Certifications

- AWS Certified Cloud Practitioner (CLF-02)** Jan 2025
- Cisco CCNA 1: Introduction to Data Networks** Jan 2025