

# Hassen Slim

+216 27 548 920 — hassen.slim@etudiant-enit.utm.tn — in in/slim-hassen — hvsssen — slimhassenportfolio

## Summary

- Computer Science Engineering Student with strong interest in AI, full-stack development, and network systems.
- Strong academic background in statistics, mathematics, physics and computer science .

## Education

- **National School of Engineers of Tunis (ENIT)**  
National Engineering Degree in Computer Engineering Sep 2023 – Present
- **Preparatory Institute for Engineering Studies of Monastir (IPEIM)**  
Ranked 379th out of 1,830 candidates in national entrance exam for engineering schools Sep 2022 – Jun 2023
- **Preparatory Institute for Engineering Studies of Nabeul (IPEIN)**  
First Year of Preparatory classes Sep 2021 – Jun 2022

## Experience

- **Insomea Cloud Solutions** Jul 2025 – Sep 2025  
**AI/DevOps Intern** Tunis, Tunisia
  - Built an AI agent leveraging the Model Context Protocol (MCP) to automate DevOps pipelines, enabling natural language deployment commands for Azure cloud infrastructure
  - Automated CI/CD workflows integrating GitHub Actions, ArgoCD, ACR, and Kubernetes (AKS/GKE), reducing deployment time and manual intervention
  - Tools: MCP, GitHub Actions, ArgoCD, Azure, Kubernetes, Docker
- **Sartex Group** Jun 2024 – Aug 2024  
**Network Observation Intern** Monastir, Tunisia
  - Simulated 10+ network scenarios using GNS3/Cisco with 20+ routers/switches, reducing troubleshooting time by 25% through optimized routing configurations and protocol analysis
  - Tools: GNS3, Cisco IOS, TCP/IP, BGP, OSPF

## Projects

- **Farm Management Platform with AI** June 2025 – Aug 2025
  - Developed React/Spring Boot app with real-time soil and livestock monitoring using rule-based logic
  - Integrated YOLOv8 models for plant/animal anomaly detection, a Grok API chatbot for user support, and a Python PyPlot dashboard for farm analytics
  - Tools: React, Spring Boot, MongoDB, Python, YOLOv8, TensorFlow, Grok API, Matplotlib (PyPlot)
- **AuTowAid – Smart Towing Assistance App** Oct 2024 – May 2025
  - Developed Flutter/Spring Boot application with Firebase notifications and Angular admin dashboard; improved emergency response time by 30% through real-time location tracking optimization
  - Tools: Flutter, Spring Boot, Firebase, Angular, REST API
- **License Plate Recognition AI Model** Mar 2025
  - Achieved 95% detection accuracy with YOLOv8 model trained on Roboflow dataset; integrated with Flask for real-time processing in low-light conditions
  - Tools: YOLOv8, Python, OpenCV, TensorFlow, Flask
- **Cinema Ticket Reservation App** Dec 2024 – Jan 2025
  - Built Jakarta EE web application handling 500+ daily ticket bookings
  - Tools: Jakarta EE, MySQL, JavaScript, HTML/CSS
- **Search Engine in Java** Mar–Apr 2024
  - Indexed 1,000+ documents using inverted index algorithms; reduced query response time by 40% compared to linear search baseline
  - Tools: Java, Data Structures, Inverted Index
- **Factory Scheduling Optimizer** Nov 2023
  - Designed linear programming solver using PuLP; optimized factory schedules to reduce idle time by 25% and increase throughput by 18%
  - Tools: Python, PuLP, Pandas, Tkinter

## Skills

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- **Programming Languages:** Python, Java, C, C#, JavaScript
- **Web Development:** Spring Boot, Django, Jakarta EE, React, Angular
- **Mobile Development:** Flutter, Firebase
- **AI/ML:** YOLOv8, TensorFlow, OpenCV, Roboflow, Scikit-learn
- **Data Visualization:** Matplotlib (PyPlot), Pandas
- **Databases:** MySQL, MongoDB, SQLite, Oracle Express
- **DevOps Cloud:** Docker, Kubernetes (AKS/GKE), GitHub Actions, ArgoCD, Azure, MCP
- **APIs Integration:** REST API, Grok API
- **Networking Tools:** GNS3, Cisco IOS, TCP/IP, BGP, OSPF
- **Operating Systems:** Linux, Windows
- **Soft Skills:** Problem-solving, Teamwork, Adaptability, Communication, Leadership

## Certifications

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- **Cisco Certified Network Associate (CCNA): Introduction to Networks** — Cisco  
[View Certificate](#)
- **Git and GitHub Mastery** — 365 Data Science  
[View Certificate](#)
- **Microsoft Certified: DevOps Fundamentals** — Microsoft  
[View Certificate](#)

## Languages

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- Arabic: Native
- English: Fluent (B2)
- French: Fluent (B2)