

Yosra Hindaoui

Software Engineer — UI/UX Designer

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📁 [Portfolio](#) github.com/HendaouiYosra

Summary

I'm a **Software Engineer** and **UI/UX Designer** with a creative mindset and a strong passion for exploring emerging fields. I'm particularly interested in **Full-stack Development**, **machine learning**, **large language models** and **computer vision**. I'm always open to take on new opportunities that push boundaries and to turn innovative ideas into impactful solutions.

Education

Higher Institute of Applied Science and Technology of Sousse

Sep 2022- Sep 2025

Software Engineering

Sousse, Tunisia

- **Relevant Coursework:** Software Development Lifecycle (SDLC), Software Architecture and Design, Programming Paradigms, Middlewares & Integrations, Artificial Intelligence, Machine Learning, Computer Vision, Data Structures & Algorithms, Database Systems, Cloud Computing, Web Technologies, Programming Languages and Frameworks.

Higher Institute of Applied Science and Technology of Sousse

Sep 2020-Jun 2022

Pre-engineering: Maths, Physics, Informatics

Sousse, Tunisia

- **Relevant Coursework:** Data Structures and Algorithms, Prob & Stats, Linear Algebra, Analysis, Networking, System Administration, System Design ...

Experience

Mount Royal University

Feb 2025 – Aug 2025

Machine Learning Research Intern

Calgary, Canada

- * Conducted research on assessing **Large Language Models (LLMs)** for **structured data extraction** and their effectiveness in automating the **credit transfer** process between universities, achieving **> 90% extraction accuracy** on historical transfer cases.
- * Investigated the **cost**, **latency**, and **performance** trade-offs of different models, combining **NLP** and **cosine similarity** techniques for course content comparison.
- * Developed a **credit transfer platform** integrating research findings on **LLMs**, **NLP**, and **RAG**, enabling **faster** transcript evaluation and reducing manual review by **70%**.

Tech Stack: FastAPI, Next.js, LangChain, Sentence Transformers, Ollama, Gemini, Qdrant, MongoDB Atlas

Hestai

Dec 2024 – Feb 2025

Freelance Ui/UX Designer

Switzerland (Remote)

- Designed a modern **Real Estate Mobile App** with an intuitive gesture-based interface to help users explore and match properties effortlessly.

Tech Stack: Figma

Sofrecom

Jun 2024 – Aug 2024

DevOps Intern

Sfax, Tunisia

- Implemented and automated a **CI/CD pipeline** using **Jenkins** for secure and efficient deployment, integrating **SonarQube** for code quality analysis and **Trivy** for Docker image scanning, reducing manual release effort by **50%** and cutting deployment time from **30+ minutes** to under **10 minutes**.
- Monitored system health and performance using **Prometheus** and **Grafana**.
- Developed **Python scripts** to automatically label **GitLab** merge requests based on pipeline outcomes.

Tech Stack: Jenkins, SonarQube, Trivy, Python, Docker, Kubernetes, Prometheus/Grafana

Digit Kakushin Soft

Jun 2023 – Aug 2023

Full Stack Intern

Sfax, Tunisia

- Developed a **RESTful web application** for managing agreements using **Spring Boot** for the backend and **Angular** for the frontend.
- Implemented secure user authentication and authorization with **Spring Security** and **JWT tokens**.
- Collaborated with the development team using the **Scrum methodology**, improving communication and task prioritization.

Tech Stack: Spring Boot, Spring Security, JWT, Angular, MySQL

Projects

Sign Language Recognition

Oct 2024 – Jan 2025

Deep Learning Project

- Trained a CNN to recognize and classify sign language gestures.
- Built and labeled a dataset, applied image preprocessing as well as data augmentation.

Tech Stack: Python, TensorFlow, Keras, cvzone, OpenCV

TextVision

Sep 2024

Computer Vision Project

- Implemented text detection and recognition using **OpenCV** for image processing and **EasyOCR** for optical character recognition.
- Visualized detected text regions with bounding boxes and annotated overlays using **Matplotlib**.

Tech Stack: Python, OpenCV, EasyOCR, React

Classroom Reservation

Mar 2024

Microservices-based Application

- implemented a microservices **backend** fronted by an **API Gateway** for routing
- Integrated Zipkin for request tracing and Eureka for service discovery

Tech Stack: Spring Boot, Spring Cloud (API Gateway, Eureka, Zipkin)

usePopcorn

Jan 2024 – Feb 2024

Web Application

- Built a movie web app integrating a real-time API to fetch and rate movie details.

Tech Stack: React, REST API

Certifications And Awards

Mitacs Globalink Research Internship

May 2025

Awarded a fully funded research internship in Canada for outstanding academic performance and research potential.

Duolingo English Test – Advanced (C1)

Sep 2025

Score: 140/160

Volunteering

Tunisia Dev Days

Sep 2024 – Nov 2024

Volunteer

Tunis, Tunisia

- Contributed to organizing a 3-day international tech conference.

North American Tunisian Engineers Group (NATEG)

Oct 2021 – Sep 2023

General Secretary & Human Resources Member

Sousse, Tunisia

- Served as **General Secretary**
- Contributed as a **Human Resources Member**

4C ISSATSo

Sep 2021 – Sep 2022

Student Ambassador

Sousse, Tunisia

- Assisted students in connecting with training opportunities offered by 4C.

Cyber Trace ISSATSo

Sep 2021 – Sep 2022

Member

Sousse, Tunisia

- Participated in organizing cybersecurity awareness events and collaborative projects focused on ethical hacking.

Technical Skills and Interests

Languages : English, French, Arabic, Italian

Programming Languages: Python, Java, JavaScript, HTML, CSS, TypeScript, C/C++, SQL, PHP, MATLAB

Frameworks and Libraries: React, Angular, Next.js, Spring Boot, TensorFlow, PyTorch, NumPy, pandas

Tools and Methodologies: Software Architecture (MVC, Microservices), Git, GitLab, Postman, SonarQube, Prometheus, Grafana, Scrum, Agile, Ollama, LangChain, AI SDK, Microsoft 365, transformers, LangChain

DevOps: Docker, Jenkins, Kubernetes

Databases and Cloud: MySQL, PostgreSQL, MongoDB Atlas, Qdrant, AWS, Azure, GCP

Soft Skills: Leadership, Empathy, Social Intelligence, Effective Communication, Team Collaboration, Adaptability