

Yosra Hindaoui

Software Engineer – UI/UX Designer

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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

Feb 2025 – Aug 2025

Hestai

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

Jun 2024 – Aug 2024

Sofrecom

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

Jun 2023 – Aug 2023

Digit Kakushin Soft

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

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| Sign Language Recognition | Oct 2024 – Jan 2025 |
| <i>Deep Learning Project</i> | |
| <ul style="list-style-type: none">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 |
| <i>Computer Vision Project</i> | |
| <ul style="list-style-type: none">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 |
| <i>Microservices-based Application</i> | |
| <ul style="list-style-type: none">implemented a microservices backend fronted by an API Gateway for routingIntegrated Zipkin for request tracing and Eureka for service discovery | |
| Tech Stack: Spring Boot, Spring Cloud (API Gateway, Eureka, Zipkin) | |
| usePopcorn | Jan 2024 – Feb 2024 |
| <i>Web Application</i> | |
| <ul style="list-style-type: none">Built a movie web app integrating a real-time API to fetch and rate movie details. | |
| Tech Stack: React, REST API | |

Certifications And Awards

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| Mitacs Globalink Research Internship | May 2025 |
| <i>Awarded a fully funded research internship in Canada for outstanding academic performance and research potential.</i> | |
| Duolingo English Test – Advanced (C1) | Sep 2025 |
| Score: 140/160 | |

Volunteering

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| Tunisia Dev Days | Sep 2024 – Nov 2024 |
| <i>Volunteer</i> | |
| <ul style="list-style-type: none">Contributed to organizing a 3-day international tech conference. | |
| North American Tunisian Engineers Group (NATEG) | Oct 2021 – Sep 2023 |
| <i>General Secretary & Human Resources Member</i> | |
| <ul style="list-style-type: none">Served as General SecretaryContributed as a Human Resources Member | |
| 4C ISSATSo | Sep 2021 – Sep 2022 |
| <i>Student Ambassador</i> | |
| <ul style="list-style-type: none">Assisted students in connecting with training opportunities offered by 4C. | |
| Cyber Trace ISSATSo | Sep 2021 – Sep 2022 |
| <i>Member</i> | |
| <ul style="list-style-type: none">Participated in organizing cybersecurity awareness events and collaborative projects focused on ethical hacking. | |

Technical Skills and Interests

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| 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 |