

GUESMI MELEK

Computer Engineering Student – Seeking a Final Year Internship (6 months)

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PROFILE

Currently a computer engineering student at ESPRIT, I am seeking a final-year internship (PFE) with a minimum duration of six months, starting in December 2025. Motivated, rigorous, and passionate about web technologies, DevOps tools, and artificial intelligence, I have a particular interest in machine learning approaches, data processing, and the development of multimodal models. I wish to join a dynamic team where I can actively contribute to high-value projects while strengthening my technical and professional skills.

SKILLS

- **Programming Languages:** JavaScript, Java, Python
- **Frameworks and Libraries:** React, Angular, Express.js, Spring Boot, Spring Batch, Odoo, TensorFlow, PyTorch
- **Web Environment / Technologies :** Node.js, HTML, CSS
- **Databases :** MySQL, MongoDB, PostgreSQL
- **Cloud & DevOps:** AWS, Azure, Docker, DockerHub, Jenkins, Kubernetes, Prometheus, Grafana, Nexus, SonarQube
- **Development Tools :** Git, GitHub
- **Methodologies:** Agile, Scrum, DevOps
- **Artificial Intelligence:** Machine Learning (classification, regression), Natural Language Processing (NLP), Data Analysis, AI Model Design and Deployment

PROFESSIONAL EXPERIENCE

Engineering Internship – Web and ERP Solutions

DIAME, Tunis, Tunisia

June 2025 – September 2025

Technologies: MERN (MongoDB, Express.js, React, Node.js), HTML, CSS, JavaScript, Docker

- Redesigned the website and back office to improve user experience and features.
- Developed applications and APIs (ERP with AI, industrial process tracking) to optimize management and interaction.
- Managed deployment and hosting via cPanel and Docker, following SCRUM methodology.

Web Developer Intern

DIAME, Tunis, Tunisia

June 2024 – August 2024

Technologies: MERN (MongoDB, Express.js, React, Node.js), HTML, CSS, JavaScript, Docker

- Updated a MERN-based application by adding user-specific and employee-specific interfaces to facilitate communication and interaction.
- Designed and developed an application to track industrial processes, optimizing management and traceability.
- Set up and tested the server environment with Docker for efficient configuration and deployment.

Intern Technician – Final Year Project: Development of a Web Application for Service and Activity Management

DIAME, Tunis, Tunisia

February 2023 – June 2023

Technologies: MERN (MongoDB, Express.js, React, Node.js)

- Gained deep knowledge of the professional environment.
- Understood and analyzed stakeholders’ requirements.
- Developed the application using the MERN stack.

PROJECTS

RecruitPro – Intelligent Recruitment Platform

Private School of Engineering and Technologies

February - May 2025

React.js, Node.js, MongoDB, TensorFlow, Cloudinary, Google APIs

- Developed a recruitment platform with user, job offer, and application management.
- CV analysis and compatibility scoring.
- Implemented a recruitment pipeline, interview scheduling (Google Calendar/Meet), and interactive dashboards.
- Set up a DevOps pipeline to automate deployment and improve project efficiency.

Link: [Recruit-Pro](#)

CI/CD Automation with Jenkins

Private School of Engineering and Technologies

February - May 2025

Jenkins, Docker, SonarQube, Nexus, Prometheus, Grafana, Mockito, JUnit, Maven

- Automated application deployment via CI/CD pipeline with Jenkins.
- Maven compilation, unit testing (Mockito, JUnit), and code analysis with SonarQube.
- Containerization with Docker, orchestration via Docker Compose, and publishing on Docker Hub.
- Performance monitoring with Prometheus and metrics visualization with Grafana.

Git Link : [Link](#)

UniHub Platform

Private School of Engineering and Technologies

February - May 2025

- Developed a microservices-based platform with Spring Boot (universities, restaurants, events, news, academic specializations).
- Implemented service discovery with Eureka and centralized routing via API Gateway.
- Containerization with Docker, orchestration via Docker Compose, and publishing on Docker Hub.

Git Link : [Link](#)

Web Page Development for Guest House

Freelance Project

April 2024 – May 2024

- Design and Development: Created a webpage for a guest house to improve presentation and visibility.
- Technologies: HTML, CSS, JavaScript
- Hosting: Managed via cPanel

Website Link : [Eddar-Darkom](#)

February - May 2024

- Designed and developed Desktop, Web, and Mobile applications for managing products, events, and users.
- Collaborated closely with the team to understand functional and technical requirements.
- Integrated key features such as data management, custom reporting, and user authentication.

National Engineering Degree in Computer Science, Tunis, Tunisia. Private School of Engineering and Technologies (ESPRIT)	<i>September 2023 – Present</i>
Bachelor’s degree in management informatics (Business Intelligence), Mahdia, Tunisia. Higher Institute of Computer Science of Mahdia (ISIMA)	<i>September 2020 – June 2023</i>

Graph Developer – Associate | *Apollo GraphQL* (Avril 2025)
Attendance Hashgraph Developer | *The Hashgraph Association* (Octobre 2025)
AWS Academy Graduate – *AWS Academy Cloud Foundations* (Novembre 2025)

English : B2
Frensh : B2