

Mariam Ghamgui

Industrial Computer Science Engineering Student

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OBJECTIVE

Motivated and resourceful student with a passion for problem-solving and continuous learning. I am looking for an internship through **the Mitacs Globalink Research Internship Program** in a dynamic academic research lab, where I can learn from experts and apply my skills in innovative research projects.

EDUCATION

2022 - 2025 Sfax, Tunisia	Engineering Diploma - Industrial Computer Science <i>National School of Electronics and Telecommunications of Sfax – Enet'Com</i>
2020 - 2022 Sfax, Tunisia	Pre-Engineering Studies – Physics/Chemistry <i>Preparatory Institute for Engineering Studies - IPEIS</i>

INTERNSHIP EXPERIENCE

July 2024 - August 2024 Tunis, Tunisia	Exploring Observation Tools for Microservices <i>Summer Intern - Adhoc Althersis</i> <ul style="list-style-type: none">◦ Deployed observation tools (Coroot, SigNoz, Netdata) for performance monitoring of a demo application and conducted load testing with JMeter.◦ Built and deployed a Docker container image in Minikube and automated the attachment of monitoring agents.
July 2024 - August 2024 Sfax, Tunisia	Assistant RAG-Llama <i>Summer Intern - Doxso Technologies</i> <ul style="list-style-type: none">◦ Researched methods for converting user intent into SQL queries and translating results into human-readable responses.◦ Applied LangChain and ChatOllama (Llama2) to enable the chatbot to process natural language inputs and deliver accurate database responses.◦ Developed and deployed the chatbot for the ENETCOM university website using Vue.js and Laravel.
July 2023 – August 2023 Tunis, Tunisia	Kolab - Task Management Web Application <i>Summer Intern - Adhoc Althersis</i> <ul style="list-style-type: none">◦ Created a task management application with React, incorporating animated interfaces.◦ Contributed to agile processes and used Notion for effective sprint planning and milestone tracking.
June 2023 – August 2023 Sfax, Tunisia	Olive Supply Chain Dapp <i>Summer Intern - Sfax Digital Research Center</i> <ul style="list-style-type: none">◦ Researched Hyperledger and Ethereum to design and build smart contracts, automating transactions and ensuring transparency for an Olive Supply Chain Management DApp.◦ Developed the frontend with HTML and CSS, and integrated Web3.js for seamless communication with smart contracts.

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RESEARCH AND PROJECTS

November 2023 - April 2024 **Development of a cloud-native chatbot and its integration into the ENETCOM website using Kubernetes and open-source tools**
Sfax, Tunisia *End Of Year Project - Enetcom*

- Developed and integrated a cloud-native chatbot with Rasa into the ENETCOM website, designing an intuitive user interface with HTML, CSS, and JavaScript. Connected the chatbot to MongoDB for chat history and PostgreSQL for querying information.
- Managed DevOps tasks, including Docker and Kubernetes setup, and implemented a CI/CD pipeline to streamline development and deployment processes.

SKILLS

- **Programming & Web Development:** JavaScript, React.js, Vue.js, HTML, CSS, PHP, Laravel, Go, Python, Java, C, Node.js, J2EE
- **DevOps:** Docker, Kubernetes, GitHub Actions, Git, GitHub, GitLab, Linux, Coroot, SigNoz, Netdata, JMeter
- **Cloud Computing:** Huawei Cloud
- **Machine Learning/AI:** Rasa, NLP, LangChain, Ollama LLaMA 2
- **Mobile Development:** Java (android), Kotlin, XML
- **Database Management:** MySQL, PostgreSQL, MongoDB
- **Blockchain Development:** Smart Contracts, Ethereum, Solidity, DApps, Web3.js, Truffle Suite, Ganache
- **UI/UX Design:** Figma, Adobe XD
- **Project Management:** Scrum, Lean Six Sigma

CERTIFICATIONS

- **KodeKloud:** DevOps PreRequisite Course - Docker Training Course for the Absolute Beginner
- **Coursera:** Blockchain Principles - Blockchain: Foundations and Use Cases - Smart Contract
- **Hashgraph Foundation :** Hedera Developer

VOLUNTEER EXPERIENCE

September 2023 – June 2024 **Web3.O Department Lead – Google Developer Student Club (GDSC)**
Sfax, Tunisia
◦ Taught and led weekly workshops on blockchain and web development, incorporating practical projects and quizzes to reinforce Web 3.0 concepts.

October 2022 – June 2023 **Member - ENETCOM Junior Enterprise (ECJE)**
Sfax, Tunisia
◦ Member of the business development process, successfully secured 5 projects and one partnership, also served as Scrum Master for a web project.

July 2022 **Assistant Chief of the Polling Station – Referendum**
Sfax, Tunisia
◦ Coordinated and supervised voting operations with the team at the polling station, ensuring compliance with electoral procedures.

LANGUAGES

English: Fluent

French: Fluent

Arabic: Native

Italian: Basic

INTERESTS

- **Front-end development** with a focus on fidelity to UI/UX designs
- **Music** (guitar)
- **Entrepreneurship** (crochet and embroidery)