

# Iyed Mohamed

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## Summary

I hold a Bachelor's degree in **Computer Engineering** with a specialization in **IoT and Embedded Systems** and am currently advancing my studies in **Software Engineering**, now specializing in **Cloud Computing, Virtualization, and DevOps**. I have strong proficiency in **full-stack development (MERN stack)**, with hands-on experience in **AI, Machine Learning, and Deep Learning**. Passionate about solving complex problems, I enjoy exploring emerging technologies, building impactful solutions, and applying **DevOps** practices to streamline development and deployment processes. I am eager to contribute to innovative projects in **cloud infrastructure, IoT, AI, and software development** within a dynamic, forward-thinking environment.

## Education

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| <b>Private Higher School of Engineering and Technology( ESPRIT)</b><br><i>Software Engineering Degree–Specialization in Cloud Computing, Virtualization&amp; DevOps</i> | Tunis, Tunisia<br>September 2024 – Present    |
| <b>Higher Institute of Computer Science and Multimedia of Gabes (ISIMG)</b><br><i>Bachelor Degree in Computer Engineering :IOT and Embedded Systems</i>                 | Gabes, Tunisia<br>September. 2021 – June 2024 |
| <b>Ibn El Haythem Secondary School</b><br><i>Baccalaureate in Maths</i>                                                                                                 | Kebili, Tunisia<br>September 2020 – June 2021 |

## Experience

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| <b>Swapify – Web &amp; Desktop Platform</b><br><i>University Integration Project</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | February 2025 - April 2025 |
| <ul style="list-style-type: none"><li>Contributed to the development of a cross-platform application promoting responsible consumption and object recycling through user-to-user item exchange.</li><li>In charge of the blog system: implemented functionality allowing users to publish informative posts, subject to admin approval before publication.</li><li>Developed user interaction features including blog rating, commenting, and social media sharing to boost engagement.</li><li>Integrated an AI-powered model to automatically summarize blog descriptions, enhancing readability and accessibility.</li><li>Implemented a content moderation service to detect and block inappropriate language in blogs and comments, ensuring a safe and respectful environment.</li><li>Tech stack used: Symfony (PHP) for the web platform, JavaFX for the desktop application, and MySQL for data persistence.</li></ul> |                            |
| <b>Full-Stack Web Developer Intern</b><br><i>Prodigy Infotech</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | July 2024 - August 2024    |
| <ul style="list-style-type: none"><li>Developed a real-time chat application inspired by Discord, allowing instant communication between users.</li><li>Implemented secure user authentication, enabling safe account creation and login.</li><li>Created functionality for chat rooms and private conversations, providing options for both group and one-on-one interactions.</li><li>Enabled multimedia sharing, allowing users to share photos, videos, and other files seamlessly.</li><li>Integrated chat history retrieval, helping users keep track of their conversations.</li><li>Added voice and video calling features for real-time communication.</li><li>Implemented group management, allowing users to create groups, remove users, and transfer group ownership.</li></ul>                                                                                                                                    |                            |
| <b>Graduation Project</b><br><i>Computer Engineering Bachelor's Degree</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | February 2024 - May 2024   |

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| <p>Project No. PEJC2023-D3P01</p> <ul style="list-style-type: none"><li>Developed an IoT-based wheat supply chain traceability system for Tunisia, integrating IoT, AI, blockchain, and SSI technologies.</li><li>Implemented interfaces for each actor (Farmer, Transporter, and Silo Responsible) including: a profile display, password management, and document upload for necessary permits.</li></ul> |  |
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- Utilized IPFS for decentralized storage of actors' licenses and transportation certificates, with a local IPFS node to secure access for trusted sources only.
- Developed an AIoT (Artificial Intelligence of Things) system to monitor the wheat supply chain, incorporating real-time AI-based classification of wheat quality using a CNN model trained with TensorFlow.
- Built and deployed the AI model, optimized for edge devices with TensorFlow Lite quantization, for real-time image analysis on a Raspberry Pi.
- Designed and integrated IoT systems in transport vehicles and silos to monitor environmental conditions (temperature, humidity, weight, GPS), leveraging Raspberry Pi, DHT11, HX711, and GPS Neo-7M modules.
- Implemented Self-Sovereign Identity (SSI) with Veramo framework to manage decentralized identifiers (DIDs) and verifiable credentials, secured on IPFS and provisioned through Sepolia test network.
- Created a React Native mobile app for credential verification via QR code, allowing secure access and validation of SSI credentials from IPFS.

## Front-End Introductory Intern

June 2023 – July 2023

*SOGREGA SARL*

*Bizerte, Tunisia*

- Embarked on a professional journey with an introductory internship focused on frontend development.
- Utilized HTML, CSS, and JavaScript to create interactive and visually appealing web interfaces.
- Gained foundational skills in web development, enhancing my ability to design and implement user-friendly applications.

## Projects

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### Smart Personal Cloud Monitoring Lab | *Docker, Terraform, GitHub Actions*

September 2025

- \* Built a mini cloud monitoring lab with a containerized Python application, infrastructure as code (IaC), and automated CI/CD pipeline.
- \* Gained hands-on understanding of DevOps workflow and Cloud/Virtualization concepts.
- \* Project repository: <https://github.com/iyedM/Smart-Personal-Cloud-Monitoring-Lab>

### Cloud Computing and IoT-Based Intelligent Solar Energy Monitoring System | *Python, Machine Learning, C Language*

- \* Managed the hardware assembly and programming of ESP8266 devices for efficient data collection.
- \* Developed a real-time web dashboard for continuous solar energy monitoring using cloud computing resources.
- \* Built and trained a Machine Learning Regression model for accurate solar power predictions, enhancing system reliability and performance.
- \* Integrated IoT and cloud systems to optimize solar energy monitoring, demonstrating expertise in IoT, machine learning, and web development.

### Portfolio Website | *HTML, CSS, JavaScript, Bootstrap*

April 2023 - May 2023

- \* Developed a responsive portfolio website to showcase projects and skills, using HTML, CSS, JavaScript, and Bootstrap.
- \* Designed an intuitive user interface with organized sections for personal information, projects, and contact details.
- \* Implemented dynamic elements and animations to enhance user engagement and improve site interactivity.

### Travel Agency Website | *HTML, CSS, JavaScript, Bootstrap*

November 2022 - December 2022

- \* Created a responsive travel agency website to showcase tour packages and destinations, using HTML, CSS, JavaScript, and Bootstrap.
- \* Designed an engaging user interface featuring image galleries, package details, and a booking form for seamless user interaction.
- \* Implemented dynamic elements such as destination carousels and animated buttons to enhance visual appeal and user experience.

## Technical Skills and Certifications

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**Programing Languages:** Python, C/C++, Java , JavaScript, PHP

**Frameworks/Libraries:**React, Node.js, Express.js, Symfony, Tailwind Bootstrap

**Developer Tools:** IntelliJ IDEA, Spyder, Eclipse, Visual Studio Code (VS Code)

**DBMS:** MySQL, MongoDB(NoSQL)

**Software Development Methodologies:** Agile, Scrum

**Operating Systems:** Linux, Windows

**Problem Solving:** Analytical thinking, Troubleshooting

**Mathematics Knowledge:** Statistics, Probability, Linear Algebra, Graph Theory

**Certifications:**

- Certificate in Azure Fundamentals from Microsoft
- Certificate in Azure AI Fundamentals from Microsoft
- Certificate in Azure Data Fundamentals from Microsoft

## Volunteer Experience

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**IEEE ESPRIT Computer Society Student Branch**

2024 - Present

*Active Member*

## Languages

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Arabic(Native), English(Professional) , French(Professional) , German(Beginner)