

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

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

Experience

Swapify – Web & Desktop Platform <i>University Integration Project</i>	February 2025 - April 2025
<ul style="list-style-type: none">Contributed to the development of a cross-platform application promoting responsible consumption and object recycling through user-to-user item exchange.In charge of the blog system: implemented functionality allowing users to publish informative posts, subject to admin approval before publication.Developed user interaction features including blog rating, commenting, and social media sharing to boost engagement.Integrated an AI-powered model to automatically summarize blog descriptions, enhancing readability and accessibility.Implemented a content moderation service to detect and block inappropriate language in blogs and comments, ensuring a safe and respectful environment.Tech stack used: Symfony (PHP) for the web platform, JavaFX for the desktop application, and MySQL for data persistence.	
Full-Stack Web Developer Intern <i>Prodigy Infotech</i>	July 2024 - August 2024 <i>Online Internship</i>
<ul style="list-style-type: none">Developed a real-time chat application inspired by Discord, allowing instant communication between users.Implemented secure user authentication, enabling safe account creation and login.Created functionality for chat rooms and private conversations, providing options for both group and one-on-one interactions.Enabled multimedia sharing, allowing users to share photos, videos, and other files seamlessly.Integrated chat history retrieval, helping users keep track of their conversations.Added voice and video calling features for real-time communication.Implemented group management, allowing users to create groups, remove users, and transfer group ownership.	
Graduation Project <i>Computer Engineering Bachelor's Degree</i>	February 2024 - May 2024 <i>Project No. PEJC2023-D3P01</i>
<ul style="list-style-type: none">Developed an IoT-based wheat supply chain traceability system for Tunisia, integrating IoT, AI, blockchain, and SSI technologies.Implemented interfaces for each actor (Farmer, Transporter, and Silo Responsible) including: a profile display, password management, and document upload for necessary permits.	

- 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

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 Lang*

- * 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

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

IEEE ESPRIT Computer Society Student Branch

Active Member

2024 - Present

Languages

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