

Mohamed Sayhi

Skanes 5060 , Monastir

+21652444176 | mohamedsaiiii@outlook.fr | February 28th, 1998 | mohamedsayhii

SUMMARY

Diligent, motivated and highly passionate Computer Scientist with a strong dedication for programming and CS related fields. Demonstrated proficiency in various programming languages and an in-depth understanding of algorithms, data structures, machine learning and combinatorial optimization concepts. Committed to exploring emerging technologies and applying them to real-world challenges. Excellent communication and collaboration abilities, fostering a conducive environment for teamwork and knowledge sharing.

EDUCATION

Faculty of Science

Monastir, Tunisia

Masters in Computer Science

October 2021 - Present

- Theoretical Computer Science
- Artificial Intelligence
- Programming
- Courses:** Data Structures, Algorithms, Graph Theory, Computational Complexity Theory, Stochastic process, Cloud Computing, Declarative Programming, Prolog, Big Data, Hadoop, Advanced Logic, Automata Theory, Constraint Programming, Data Mining, Machine Learning, Deep Learning, NLP, Semantic Web, Computer Vision, Combinatorial Optimization.

Faculty of Science

Monastir, Tunisia

Bachelor in Computer Science

October 2017 - June 2021

- Programming
- Algorithms and Data Structures
- Computer Networking
- Distributed Systems
- Communication and Networking
- Courses:** Data Structures, Algorithms, C, Object-Oriented Programming, C++/C, Java, Database Management Systems, SQL, Web Fundamentals, HTML/CSS/JavaScript, Operating Systems, Linux, Cryptography, Distributed Computing, IoT, Mobile Development, Flutter/Android Studios, Machine Learning, Python, Arduino, Raspberry pi3, Mathematics(Calculus, Algebras), English, French.

Highschool of Manar

Kasserine, Tunisia

B.A. in Mathematics

2013 - 2017

EXPERIENCE

VERMEG

Sousse, Tunisia

AI Developer

January 2024 - Present

- Integrated and deployed large language models (LLMs) via APIs to enhance various client services and workflows.
- Engineered and implemented Retrieval-Augmented Generation (RAG) systems using advanced orchestration tools, ensuring seamless model integration and performance.
- Monitored and optimized deployed AI systems using specialized tools to maintain high availability and performance.
- Collaborated with cross-functional teams to refine model outputs, addressing edge cases and improving overall accuracy.
- Conducted research on advanced AI methodologies and kept up-to-date with the latest advancements in LLMs and AI infrastructure.
- Documented implementation processes and research findings in detailed technical reports.
- Keywords:** AI, LLMs, RAG, Orchestration, Monitoring, Python.

FACULTY OF SCIENCE

Monastir, Tunisia

Undergraduate Research Assistant

October 2022 - Present

- Conducted a research on the Vehicle Routing Problem with Pickups and Deliveries, collaborating with researchers to achieve project goals.
- Conducted literature reviews, analyzed data, and compiled research findings to support project outcomes.
- Developed and implemented a weighted-sum genetic algorithm to solve the problem.
- Tested the algorithm on renowned benchmarks in the field.
- Presented research progress and results during lab meetings.
- Documented the work realised in a report.
- Keywords:** Research, Combinatorial Optimization, VRP, Metaheuristics, GA, Python.

PROJECTS

To-Do List Application

Kasserine, Tunisia

Homemade

2022

- Build a Todo list using HTML, CSS, and JavaScript for user interactivity.
- Use DOM manipulation and LocalStorage for dynamic task updates and data storage.
- Create a responsive, user-centric interface for a better user experience.
- Implement features to filter and sort tasks based on their status (completed/incomplete) or due date.
- Manage code with version control and deploy the app online for accessibility.

Weather Application

Kasserine, Tunisia

Homemade

2022

- Develop a weather application using HTML, CSS, and JavaScript for real-time weather information.
- Design a user-friendly interface with different backgrounds for different weathers and responsive layout for various devices.
- Fetch weather data from a weather API in JSON format.

Marketing and Sales Manager

São Paulo, Brazil

Sementes Do Amanhã

August 2021 - September 2021

- Managed the Organization website.
- Utilized WordPress to design parts of the interface and implement multi-languages version of the website.
- Conducted different strategies to attract sponsors and donors.
- Improved social media and website presence for the social impact of the NGO.

Planning, Organizing and Moderating Two Editions of a National Robotics Competition

Monastir, Tunisia

Faculty of Science, FSM RoboTech Club

February 2022 / February 2023

SKILLS

Programming

Python, JavaScript, HTML, CSS, Flutter.

Data Analysis

Pandas, NumPy, MATLAB.

Research Methodologies

Literature Review, Experiment Design, Data Collection, Statistical Analysis.

Software and Tools

Git, Jupyter Notebook, Visual Studio Code.

Miscellaneous

Linux, MacOS, GitHub, SQL, LaTeX (Overleaf), WordPress, Microsoft Office, Arduino,...

Communication

Excellent written and verbal communication skills, adept at presenting complex technical concepts.

Teamwork

Proven ability to collaborate effectively in research teams and contribute to shared objectives.

Problem-Solving

Strong analytical and critical thinking skills to tackle challenging research problems.

Languages

Arabic (Native), English (Fluent), French (Fluent), Portuguese (Conversational)

EXTRACURRICULAR

Present **Active Member**, Rotaract Club

Kasserine

2020-2021 **Chief of Protocol**, Rotaract Club

Kasserine

2019-2020 **Active Member**, Rotaract Club

Kasserine

2021-2022 **Vice President**, FSM RoboTech Club

Monastir

2020-2021 **Treasurer**, FSM RoboTech Club

Monastir

2019-2020 **Active Member**, FSM RoboTech Club

Monastir

May 2021 **B2B Sales Manager**, AIESEC RUSPINA

Monastir