





MARIEM CHAREF

Software Engineering Student

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Skills

Programming: Python, C++, HTML, CSS, JavaScript, SQL, Angular, FastAPI, Git

Knowledge: Algorithms, Data Structures, System Design, Testing

Languages: Arabic (Native), French (Fluent), English (Professional)

Education

Preparatory Institute for Engineering Studies

Sep 2021 – Jun 2023

Preparatory Cycle in Mathematics and Physics

Nabeul, Tunisia

- Courses: Mathematical Analysis, Linear Algebra, and Physics

National Engineering School of Carthage

Sep 2023 – Present

Engineering Degree in Computer Science

Tunis, Tunisia

- OOP, Modeling, Algorithms, Data Structures, Networking, Java, C/C++

Projects

Competitive Programming Contests Tracker | Java, Spring Boot, PostgreSQL, React.js

- Collaborated with classmates to design and develop a Java-based backend system for hosting online competitive programming contests and coaching university students.
- Implemented relational database schemas and backend services for competitions, users, problem sets, automated submissions, and scoreboards.
- Conducted peer code reviews within the team to identify bugs, exchange feedback, and strengthen collective problem-solving skills.

Experience

Coding Betounsi | Python, FastAPI, PostgreSQL, Angular, Ionic

June 2025 – August 2025

Full Stack Developer Intern 

Remote

- Developed new features for a fitness web and mobile application, focusing on modular design and smoother user experience.
- Built contract management workflows across frontend and backend, replacing static role-based access with dynamic contract-driven authentication.
- Integrated Google social login, improving usability and reducing login friction.
- Resolved major cross-stack bugs (image uploads, date/time handling, notification logic), improving reliability and reducing user-facing errors.
- Wrote unit and integration tests using to ensure backend reliability and prevent regression errors.

Training

Coding Betounsi | Data Structures, Graphs, Algorithms, Software Development

Mar 2025 – Present

Mentorship

Remote

- Practiced data structures and algorithms through LeetCode problem-solving sessions and Codeforces contests
- Discussed system design and database practices, including modeling and migrations.
- Actively contributing to real project, applying learned concepts in full-stack development and software engineering best practices.

Activities

General Secretary, Competitive Programming Club

Sep 2024 – June 2025


National Engineering School of Carthage

Tunis, Tunisia

- Collaborated with the club leadership team to organize and lead workshops, mentoring students on data structures, bitmasks, and binary search.

TechX Competitive Programming Competition

Sep 2024

Third Place among national teams 

City of Sciences, Tunis, Tunisia

Certifications

CS50's Introduction to Databases with SQL

Mar 2025

Harvard University

CS50's Introduction to Artificial Intelligence with Python

Sep 2025

Harvard University