

# 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

**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, SpringBoot, PostgreSQL, ReactJs*

- 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.

## 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*