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