MERIEM HATHAT

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PROFILE

Software Engineer with experience in full-stack web development and software engineering. Experienced in developing modern web applications and software solutions, with a strong foundation in software architecture, problem-solving, and collaborative development. Interested in building reliable, user-focused solutions and contributing to innovative projects.

EDUCATION

National Higher School of Computer Science (ESI ex INI), Algiers *2022 – 2025*
Computer Science Engineering Degree
Specialization: Computer Systems and Software Engineering
Relevant coursework: Software Architecture, Design Patterns, Software Quality, Software Engineering Tools (testing, CI, code quality analysis), Web and Mobile Development,Big Data Mining (supervised and unsupervised learning, large-scale data processing and analysis), Data Mining And Analysis, Advanced Databases.

Higher School of Computer Science, Sidi Bel Abbès *2020 – 2022*
Preparatory Cycle : Algorithms, Object-Oriented Programming , Operating Systems (Linux).

EXPERIENCE

IRISA – Research Institute in Computer Science and Random Systems (France) *Oct. 2024 – Jul. 2025*
Research Intern (Remote)

- Conducted research on the prediction of architectural security weaknesses in microservice-based systems.
- Developed Python-based scripts for processing architectural data and extracting structural metrics from microservice architectures.
- Applied and evaluated machine learning models (Decision Tree, Random Forest, SVM) for predicting design-time security rule violations.
- Analyzed experimental results and contributed to the documentation of research findings and methodology.
- Co-authored a peer-reviewed publication in Springer: *Predicting Security Weaknesses in Microservice Architectures Using Structural Metrics.*

Sonelgaz Relizane *Aug. 2023 – Sept. 2023*
Technical Intern

- Developed and enhanced an internal IT asset management application using Python and Django.
- Designed and implemented backend features including role-based authentication and automated repair tracking workflows.
- Improved the user interface and application workflows to enhance usability and reduce data-entry errors.

PROJECTS

EasyLaw – Legal API Marketplace *Feb. 2024 – Jun. 2024*
Full-Stack Developer

- Coordinated team tasks for the "API Marketplace" component and supervised integration across modules.
- Designed and implemented the monetization and API management module (front-end and back-end).
- Contributed to the implementation of versioning and subscription plan management features.

Technologies: Python, Django, TypeScript, ReactJS, Redux Toolkit, TailwindCSS

Vehicle Comparison Website *Dec. 2023 – Jan. 2024*
Web Developer

- Designed and implemented a responsive web platform for comparing vehicles based on specifications, price, and user reviews.
- Developed the entire system following an MVC architecture with user and admin interfaces.
- Integrated management modules for vehicles, reviews, and news.

Technologies: HTML5, CSS3, JavaScript, JQuery, Ajax, PHP.

SKILLS

Languages and Frameworks: Python, Django, JavaScript, TypeScript, ReactJS, Node.js, PHP, HTML5, CSS3, jQuery, Ajax, Redux Toolkit, TailwindCSS, Kotlin.

Databases: MySQL, SQLite, PostgreSQL.

Tools: Git/GitHub, Docker, Meven , Jenkins, Postman, JUnit.

Soft Skills: Teamwork, coordination, communication, problem-solving, fast learning.