

Taha Draoui

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Professional Experience

Software Engineer - Intern, SWIFTECH – Tunisia

May–Aug 2024

- Developed a backend application and contributed to the development of UI components.
- Implemented CI/CD workflows to automate testing and deployment.
- Actively participated in SCRUM workflows, including sprint planning, daily stand-ups, and retrospectives.

Key words: *React.js, ASP.NET Core, RESTFUL API, JWT Bearer Auth, Unit testing, Generic Repository Pattern, CI/CD.*

Graduate Research Assistant, Rochester Institute of Technology – USA

Aug 2023 – May 2024

- Conducted research on Data Leakage in Machine Learning notebooks.
- Designed and implemented an AI-based tool for Data Leakage detection using Deep Learning and code analysis.
- Collaborated with senior researchers to integrate research outcomes into a research paper.

Key words: *Software Engineering, Artificial Intelligence, Deep Learning, Graph Representation Learning, Python.*

Backend Developer - Intern, MSK Technologies – Tunisia

Jun–Aug 2022

- Built a Restful WEB API as the backend server for a social network application.
- Designed, implemented, and tested code across various modules.
- Updated and maintained comprehensive documentation for all implemented features.

Key words: *ASP.NET Core, SQL Server, Stored Procedures, Entity Framework, Unit Of Work, Layered Architecture, Git, Postman.*

Academic Projects

Bug triage algorithm using Deep Learning - Capstone project

Feb-Jun 2023

The bug triage algorithm assigns the appropriate developers to fix software bugs which is a well-known software engineering challenge.

- Leveraged a graph-based deep learning model for bug triage.
- Explored and compared different graph learning techniques.

The proposed approach showed an improved performance and efficiency compared to previous state-of-the-art approaches.

Key words: *Deep Learning, Graph Neural Networks, Python, BERT, GraphSage, Pytorch, DGL.*

Publications

Taha Draoui, Faten Jebari, Chawki Ben Slimen, Munjaap Uppal, Mohamed Wiem Mkaouer **“Analyzing Vulnerability Overestimation in Software Projects.”** *Proceedings of the Mining Software Repositories (MSR 2025), Mining Challenge Track, May 2025.*

Skills

Programming Languages: Python, C#, JavaScript, SQL

Web: HTML, CSS, React, ASP.NET Core, Postman

DevOps: Docker, Azure, Git

Databases: Oracle SQL, PostgreSQL, SQL Server, MongoDB

Education

University of Michigan-Flint, MS, Computer Science

Aug 2024 – Current

Tunis Business School, BS, Business Administration, IT Major

Sept 2019 – July 2023