

# Saif Eddine HLIOUI

## Full-Stack Software Engineer

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### Summary

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Full-stack software engineer with hands-on experience designing and shipping scalable web applications and enterprise platforms for European clients. Specialized in backend API development, frontend engineering, third-party system integrations, and security hardening. Proven ability to stabilize and modernize legacy systems, implement complex financial business logic, and deliver reliable full-stack solutions in professional agile environments.

### Professional Experience

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#### Software Engineer

*Euro Tech Conseil (ETC)*

Jan 2025 – Present

*Tunisia*

#### Philotechnique – Full-Stack E-learning Platform

- Contributed to the development of an online learning platform used to manage courses, student registrations, and instructor scheduling in a production environment.
- Developed REST APIs using Flask to handle core business logic, course registration workflows, and secure payment processing.
- Built responsive Angular interfaces for course scheduling and student dashboards, improving usability across devices.
- Integrated Stripe to handle secure online payments and course enrollment transactions reliably.
- Implemented automated Brevo email workflows for transactional notifications including welcome emails, course updates, and cancellations.
- Integrated the Zoom API to automatically provision virtual classroom sessions for online course delivery.

#### Whisper – CRM / ERP Platform (Wallerich SA)

- Drove the stabilization and refactoring phase of a complex CRM/ERP system, significantly improving overall code maintainability and system reliability.
- Analyzed and resolved code quality issues identified by SonarQube, PHPStan, and PHP CodeSniffer.
- Expanded test coverage by adding comprehensive unit tests to reduce regression risks.
- Developed new application modules and user interfaces using Laravel and Vue.js.
- Implemented Passkey authentication to modernize login security.

#### DeeOps – Intelligent ERP Platform

- Owned the invoice payment module, implementing business logic for financial transactions and settlement workflows.
- Developed backend features for accounting movements and journal entries.
- Implemented debit/credit/balance calculations for real-time financial operations.
- Built backend services using Symfony and interfaces with Angular.
- Optimized PostgreSQL queries for reporting and transaction lookups.

#### Internal Business Applications – Easy, eLab, Nestor

- Maintained and stabilized internal tools, resolving legacy bugs and technical debt.
- Upgraded dependencies to ensure long-term compatibility.
- Implemented API response encryption to secure sensitive data.
- Hardened application security by encrypting environment variables and secrets.
- Delivered Single Sign-On (SSO) authentication across applications.

#### Freelance Full-Stack Developer

*Stock Management Desktop Application*

2025

- Designed and built a cross-platform desktop application for inventory management across multiple departments.
- Implemented real-time stock monitoring with alerts for critical levels.
- Developed delivery receipt scanning to reconcile incoming inventory automatically.
- Generated monthly reports and automated email dispatch to administrators.

Tools: Flask, Angular, Laravel, Vue.js, Symfony, PHP, PostgreSQL, React, Tauri, SQLite, Stripe, Brevo, Zoom API, SonarQube, PHPStan, Git

### Internships

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#### Software Engineer Intern (Final Year Project)

*Talan*

Feb 2024 – Aug 2024

*Tunis, Tunisia*

- Engineered a full-stack data platform to detect synchronization issues in electronic payment terminals.

- **Built a data pipeline** using Databricks and PySpark for high-volume transaction processing.
- **Developed .NET backend services** and Azure-hosted components for monitoring and alerting.
- **Created a real-time Angular dashboard** to visualize system health and anomalies.

*Tools: .NET, Angular, Databricks, PySpark, Azure*

### Full Stack Engineer Intern

*TeamDev*

Jun 2023 – Aug 2023

*Sousse, Tunisia*

- **Developed an intranet application** for managing employee leave requests and HR workflows.
- **Implemented leave tracking features** with auditability and reporting.

*Tools: NestJS, Angular, PostgreSQL, Heroku*

## Education

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### National Diploma in Computer Engineering – High Honors

2021 – 2024

*Faculty of Sciences of Tunis (FST)*

### Maths-Physics Preparatory (MP)

2018 – 2021

*Tunis Preparatory Engineering Institute (IPEIT)*

## Technical Skills

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**Frontend:** Angular, React, Vue.js, Tauri

**Backend:** Laravel, Symfony, Flask, NestJS, .NET

**Programming Languages:** TypeScript, JavaScript, PHP, Python, C#

**Databases:** PostgreSQL, MySQL, SQLite

**Cloud & Platforms:** Azure, Databricks

**Api & Integrations:** Git, SonarQube, PHPStan, Stripe, Brevo, Zoom API

## Languages

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**Arabic:** Native   **French:** Fluent   **English:** Professional Working Proficiency