

CHAIMAE ECH-CHARFI

SOFTWARE ENGINEER

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 [Portfolio Chaimae ECH-CHARFI](#)

About Me

Software Engineer with a Master's degree in computer science.

My background has enabled me to develop strong expertise ranging from back-end and front-end development to the design of robust software architectures, as well as data analysis and utilization. Driven and detail-oriented, I am eager to apply my technical skills and analytical mindset to innovative, high-impact projects.

Education

Master's Degree in Computer Science

Aix-Marseille University, FRANCE

2024-2025

Engineering Degree in Computer Science

ENSA, Morocco

2017-2022

Skills

Databases: SQL, NoSQL, MySQL, Oracle Database, MongoDB

Web Development: Spring Boot, Hibernate, Angular, Bootstrap, React.js, Vue.js, JavaScript, Tailwind, Laravel, Node.js, HTML, CSS, PHP

Mobile Development: React Native, Java, Android Studio

Desktop Development: C, Python, .NET

Version Control: Git

Cloud Computing: Microsoft Azure, Amazon Web Services (AWS), Google Cloud

Data Management: Data Warehouse, Data Lake, ETL, Datamarts, Databricks, DBT

Business Intelligence: Power BI

Project Management: Agile (SCRUM)

Operating Systems: Linux, Windows

Experience

Final-Year Internship

LIS, MARSEILLE

Developed a trajectory generation algorithm for simulated vehicles in SUMO, integrating data from OpenStreetMap, traffic counts, and synthetic sources. Conducted network modeling, simulation, and scenario analysis.

Python, SUMO, OpenStreetMap

Analyst Software Developer

Linedata

- Contributed to the design and development of product enhancements and new modules.
- Implemented robust back-end services ensuring integration with the front-end.
- Participated in code reviews and performance optimization of critical components.

Angular, Java, Hibernate

Web Developer

NTT DATA

- Completed a pre-hire internship at NTT DATA, designing and developing a recruitment web application with integrated candidate tracking and HR data analytics modules.
- Built an interactive dashboard to visualize key recruitment indicators, enabling HR teams to access both summary and detailed insights.

Angular, Spring Boot, and Hibernate.

Project

- Developed a flight search app using a flight API to display available flights based on departure, destination, passengers, and date.

Technologies: VB.NET

- Mobile Application for Cleaning Services — Designed and developed a mobile app to request and manage on-demand cleaning services.

Technologies: React Native, Spring Boot

- Web Application for Apartment Rentals — Built a web platform enabling individuals to manage apartment rentals and bookings.

Technologies: Vue.js, Spring Boot

- Designed and implemented a machine learning model to enable autonomous vehicle navigation.

Technologies: Python, Scikit-learn, Pandas, OpenCV, TensorFlow

Language

- English
- Frensh
- Arabic