

CHAIMAE ECH-CHARFI

SOFTWARE ENGINEER

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Mobility in France

About Me

Software Engineer with a Master's degree in Data Science and Engineering.

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, JavaScript, Tailwind, Laravel, Node.js, HTML, CSS, PHP

Mobile Development: React Native, Java, Android Studio

Desktop Development: C, Python, .NET
Version Control: Git

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

Data Science & AI: Data Mining, Machine Learning, Deep Learning

Business Intelligence: Power BI

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

Project Management: Agile (SCRUM)

Operating Systems: Linux, Windows

Experience

Final-Year Internship

LIS, MARSEILLE

Mar 2025- July 2025

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

Jan 2023- Jan 2024

Contributed to the design and development of product enhancements and new modules.

Angular, Java, Hibernate

Web Developer

NTT DATA

Jan 2022 - Dec 2022

I first joined NTT DATA through a pre-hire internship, during which I designed and developed a recruitment web application integrating candidate tracking and HR data analytics modules. I also implemented an interactive dashboard to visualize key recruitment indicators, providing both summary and detailed insights for HR teams. Following the success of this internship, I was offered a full-time contract, where I continued to contribute to various projects within the company.

Angular, Spring Boot, and Hibernate.

Project

- 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: React.js, Spring Boot
- Desktop Chat Application — Implemented a real-time chat application using Java sockets.
Technologies: Java (Socket Programming)
- Designed and implemented a machine learning model to enable autonomous vehicle navigation.
Technologies: Python, Scikit-learn, Pandas, OpenCV, TensorFlow

Language

- English
- Frensh
- Arabic