Raphael Partouche

Data & AI Engineer

CONTACT

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PROFESSIONAL EXPERIENCE & PROJECTS

Full Stack Engineer | July 2025 – Now
CiviBot – Berkeley, CA (US)

- Contributed to an AI-driven startup incubated at SkyDeck Berkeley while pursuing studies.
- Built end-to-end pipelines for document ingestion, OCR, embeddings, and compliance-check automation.
- Developed and deployed backend APIs using FastAPI.
- Implemented key frontend features with React.

Real Estate Price Estimation – October 2025

- Processed DVF 2024 public transaction data: cleaning, deduplication, outlier removal, feature engineering.
- Trained a Mahcine Learning model (Gradient Boosting Regressor) with geographic, structural, and categorical features and deployed it using joblib serialization.
- Built the attached web application combining a FastAPI backend and a React frontend to estimate Paris property prices.

Othello Game – Frontend and AI Development | Spring 2025
Sophia–Antipolis

- Built a full Othello game with interactive UI and custom AI opponent.
- Implemented core game logic with clean, modular frontend code.

Assistive Navigation Device for the Visually Impaired | Fall 2024
Sophia–Antipolis

- Designed a wearable navigation system for visually impaired users.
- Integrated spatial audio and haptic feedback for obstacle and direction cues.
- Built and tested a functional prototype replacing core white-cane features.

Product tester | Summer 2021
Water-Id – Karlsruhe (Germany)

Ensured the proper functioning of electronic devices for water quality testing.

EDUCATION

Eurecom | Sophia –Antipolis | 2024–2027
Engineering Degree – Master in Data Science

- High level engineering curriculum in the Sophia Antipolis, focused on data science and AI in an Interntional environement.
- Building strong expertise in machine learning, database systems, cloud computing, cybersecurity and information theory.
- Complemented by cross-disciplinary courses in law, management, and innovation

Preparatory Classes for Engineering Schools | Lycée Jacques Decour | 2022–2024
French CPGE in Mathematics and Physics

Two intensive years of undergraduate study in Advanced Mathematics and Physics to prepare for the selective entrance examinations to French Engineering Schools.

SKILLS

Languages
- French : Native
- English : Bilingual (C1)
- Spanish: Fluent (B2)
- Italian : Elementary
- Hebrew : Elementary

Programming Languages
- Python
- SQL
- C
- JavaScript/Typescript (React)

Theoretical skills
- Data science
- Machine Learning
- Cloud
- Data Security
- Information Theory