

# Abd Raouf Zerkhef

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## Summary

Data Science & AI student passionate about Generative AI. Builds scalable digital products combining Go/Gin backend and Flutter frontend with clean, performance-driven architecture.

## Skills

- **Programming:** Go | Dart | Python | JavaScript | Java | C
- **Back-end:** Gin | Django | RESTful APIs
- **Mobile Development:** Flutter | MVVM | State Management
- **Databases:** PostgreSQL | MongoDB | Redis | SQLite | MySQL
- **DevOps:** Docker | Git | GitHub Actions | CI/CD | Linux
- **Software Architecture:** Clean Architecture | Layered Architecture | System Design
- **Data Science & AI:** pandas | NumPy | scikit-learn | Matplotlib | Seaborn

## Experience

### Backend Developer, RetailSpot

Remote work on a high-performance AdServer for retail media using Go (Gin). Focused on scalable, low-latency ad delivery and programmatic bidding.

Remote (Paris, France)  
May 2025 – Present

- Leveraged Go concurrency to handle real-time ad auctions with low latency.
- Used in-memory caching to optimize ad response times and reduce DB load.
- Integrated OpenRTB and Prebid.js for programmatic bidding and DSP compatibility.
- Collaborated in agile sprints to align backend features with product goals.

## Personal Projects

**MailMind:** AI-powered email assistant with a **Go (Gin)** backend and **Flutter** Chrome extension. Features JWT authentication and **OpenAI API integration** for natural language responses.

**Movie Rental Duration Prediction:** Developed regression models (**Linear, Ridge, Lasso, Random Forest, Gradient Boosting**) to predict DVD rental durations. Utilized **scikit-learn** for training, hyperparameter tuning (GridSearchCV), and evaluation (MSE).

**Analysis Scripts:** Data analysis projects using **pandas, numpy, matplotlib**, and **seaborn**, including:

- NYC SAT score analysis by borough
- Netflix movie trends in ratings, duration, and release years
- NYC Airbnb market pricing patterns
- LA crime trends by time and location

**GoLaunch CLI:** CLI tool for concurrently launching and monitoring development services. Built with **Go, Cobra**, and **urfave/cli**, improving developer workflow automation.

**GDG Algiers Docs:** Authored Flutter documentation on **MVVM**, state management (BLoC), and routing best practices for the GDG Algiers developer community.

## Education

**BS**    **Ecole Supérieure en Sciences et Technologies de l'Informatique et du Numérique (ESTIN) -**

*Engineer's Degree in Computer Science — Specialization: AI & Data Science (5-year program, currently in 4th year)*

### Relevant Coursework:

- Artificial Intelligence, Probability & Statistics, Random Processes & Queues
- Algorithms & Data Structures, Object-Oriented Programming