

DIMITRI KHNAISSER

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EDUCATION

Université Saint-Joseph (USJ)

2025 - Present

ESIB – Master's in Artificial Intelligence

Conservatoire national des arts et des métiers (CNAM-Paris)

2020 - 2023

Bachelor's degree in computer science

WORK EXPERIENCE

XpertBot

March- September 2025

Backend Developer Intern

- Developed and maintained RESTful API endpoints for authentication and core application features
- Implemented token-based authentication using Laravel Sanctum and middleware
- Designed and built backend components for a web application
- Performed API testing and debugging using Postman to ensure reliability
- Used Git and GitHub for version control and team collaboration
- Participated in mentorship sessions covering backend architecture and best practices

Tools used: Laravel, PHP, REST API, MySQL, Sanctum, Middleware

ICCS

December 2023 – December 2024

IT & Database Support

- Resolved IT support tickets and reduced system downtime
- Assisted in SQL database management and data analysis
- Collaborated with cross-functional teams on system updates and troubleshooting
- Completed routine maintenance to ensure data integrity and system performance

ADDITIONAL EXPERIENCE AND PROJECTS

Machine learning project

2026

Built and evaluated multiple machine learning models (Logistic Regression, Decision Tree, Random Forest, XGBoost) on a large imbalanced dataset (~300k records) to predict a binary outcome.

Optimized model performance using class weighting, threshold tuning, and evaluation metrics beyond accuracy (recall, F1-score).

Reference: <https://github.com/dimitriKhnaisser/Loan-Default-prediction-Machine-Learning>

Robotics project

2026

Developed a robotics system integrating IMU and odometry data for robot localization.

Applied an Extended Kalman Filter (EKF) to estimate the robot's position in a nonlinear environment.

Reference: <https://github.com/dimitriKhnaisser/EKF-Robotics-AI-Project>

Job Board API

2025

Built a RESTful API with secure authentication and role-based authorization using Laravel Sanctum and middleware.

Utilized scalable design principles, executed API testing with Postman, and used Git/GitHub for version control.

Reference: <https://github.com/dimitriKhnaisser/Job-Board-API>

SKILLS

- **Programming Languages:** *Python, PHP, Java, SQL*
- **Frameworks & Tools:** *TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Laravel, Git, GitHub, Postman*
- **Artificial Intelligence & Machine Learning:** *Machine Learning, Deep Learning (CNN, RNN), Artificial Neural Networks, Supervised Learning, Unsupervised Learning, NLP, Computer Vision, AI in Robotics, ROS2*

LANGUAGES

- **Arabic** (Native)
- **English** (Fluent)
- **French** (Delf B2)