

# VIDAL ANTOINE

Full-stack software engineer seeking a permanent contract in web development available immediately

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Passionate about computer science and software development, I constantly seek to deepen my understanding of technologies and modern systems. I am enthusiastic about contributing to all aspects of development, whether on the **front-end** or **back-end**.

## PROFESSIONAL EXPERIENCE

### Full-stack Developer

4MTec - Permanent contract within a Digital Services Company (ESN)

March 2024 – Present    Montrouge

Client : Coda Systèmes    September 2025 – Present

Development of an autonomous gantry equipped with cameras and a screen, allowing real-time detection of Personal Protective Equipment (PPE) worn by employees using an AI model:

- Training an AI model (YOLO) for PPE detection (helmet, vest, earplugs, safety goggles, etc.)
- Integration of the AI model into a physical gantry: real-time video processing via the gantry's cameras
- Development of an interface displaying worn and missing PPE on the gantry's screen after AI analysis
- Design of a database for logging, tracking, and compliance monitoring of employee passages

Technologies: **Vue.js**, **Javascript**, Ultralytics (YOLO), OpenCV, Google Cloud Storage, **FastAPI**, SQLAlchemy, **Python**, PostgreSQL, Linux, Bash, Git, GitHub

Client : Coda Systèmes    May 2025 – August 2025 (4 months)

Development of a high-performance video analysis software (up to 1500 fps) for industrial image analysis:

- Implementation of a video recording module with fine-grained control over camera parameters (resolution, frame rate, recording duration, lighting, etc.)
- Performance optimization for very high-speed video stream processing
- Frame-by-frame video playback enabling detailed analysis impossible with standard video players
- Design of video annotation tools (drawing, length and angle measurements, object tracking, etc.) directly on videos

Technologies: **Python**, OpenCV, PyQt6, Vimba, Linux, Git, GitHub

Client : Qarnot    March 2024 – April 2025 (1 year and 1 month)

Redesign of the company's internal data storage website:

- Development of UI pages and components with Vue.js to improve ergonomics and user experience
- Design and development of REST APIs with Node.js, as well as database modeling and management with Sequelize
- Application maintenance: bug fixing, refactoring, and improvement of existing code quality
- Collaboration with the product and technical team: GitLab code reviews, Jira ticket management, and technical documentation

Technologies: **Vue.js**, **Node.js**, Sequelize, MariaDB, **Javascript**, Linux, Docker, Bash, Git, GitLab

## EDUCATION

### Master's Degree in High Performance Computing (HPC)

LI-PaRAD, UVSQ Paris-Saclay – Dual Degree alongside Computer Science Degree

2022 – 2023    Guyancourt

Big Data, Parallelism, Multithreading, Code Optimization

### Master's Degree in Computer Science

ISTY, UVSQ Paris-Saclay

2018 – 2023    Vélizy

Object-Oriented Programming, C, Python, Java, Linux, Operating Systems, Compilers, Databases, Computer Architecture, Software Architecture, Algorithms, Algebra

## LANGUAGES

- English: Advanced – B2 (TOEIC 2022: 925/990)
- Japanese: Basic – A2

## SOFT SKILLS

- Curiosity
- Perseverance
- Thoroughness
- Teamwork

## HOBBIES

- Learning Japanese
- Football with friends