

# David MENDY

Full stack Software Engineer | Seeking a VIE for Sept. 2026

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## Profile

Currently completing a Master's in Information Systems Architecture through a work-study program, I specialize in full stack development with strong experience in Vue.js/Angular and FastAPI. Comfortable in agile and DevOps environments, I am seeking a VIE (International Volunteer Program) position to contribute my skills to an international organization.

## Skills & Languages

**Frontend** : JavaScript, TypeScript, HTML/CSS, VueJS, Nuxt, Angular

**Tools** : Mattermost, Claude, Cursor, Coderabbit, Strapi, Postman

**Backend** : Python, FastAPI, Node.JS, NestJS, PHP, Symfony, Java

**Methodologies** : Kanban, SCRUM, SAFE

**Tests** : Cypress, Playwright, Puppeteer, PyTest, Vitest

**Modeling & Design** : UML, Merise, Figma, StarUML, Draw.io

**DevOps & DB** : Docker, Git, GitHub Actions (CI/CD), SonarQube, PostgreSQL, MySQL, S3/MinIO

**Soft skills** : Adaptability, Self-reliance, Team Player, Curiosity, Communication

**Auth** : Keycloak, JWT, OAuth2, SSO

**Languages** : French (Native), English (Professional)

## Professional Experience

### Digital Transformation Directorate – French Ministry of the Interior

Paris, France

Full-Stack Developer - Work-Study Program

Sept. 2023 - Present

**SELFIM** – Vehicle registration certificate fraud detection application *Vue.js · DSFR · FastAPI · PostgreSQL · Puppeteer · MinIO*

- Development and maintenance of both frontend and backend
- Implemented a document upload feature to S3-compatible object storage (MinIO) using boto3
- Implementation of a single and multiple flagging system for suspicious cases
- Automated PDF generation with Puppeteer and automated email sending upon flagging
- Application covering around thirty fraud typologies, deployed in production and used by over 150 agents across French prefectures

**MirAI** – Generative AI portal for French Ministry of the Interior agents *Vue.js · DSFR · Strapi*

- Development of the presentation portal and centralized access hub for the Ministry's generative AI tools
- Frontend migration from Streamlit to Vue.js, compliant with the French State Design System (DSFR), for the OCR and Abrège tools
- Integrated a dynamic Q&A section using Strapi as a headless CMS for content management
- Integration of the OCR tool (text extraction from scans and PDFs) and Abrège (text, URL and document summarization)
- Application deployed in production and used by over 20,000 Ministry of the Interior's agents

**Basegun** – AI-powered firearm identification application for law enforcement *Vue.js · DSFR · FastAPI · SSO · SMTP*

- Full stack development of new features (product backlog, AI modules from the data science team)
- Integration of the Ministry's SSO for authentication management
- Setup of an SMTP server for automated email sending
- Refactoring of existing frontend components and backend endpoints
- Accessibility compliance updates following security audits (RGAA)
- Application deployed in production, used by French law enforcement agencies

## Education

### Information Systems Architecture

Master's degree

CFA INSTA

Paris, France • Sept. 2024 - Expected Aug. 2026

Full-Stack Web Development • DevOps • Software Architecture • Databases • Project Management • IoT • Big Data • Cybersecurity • Security Audit • AI • Search Engine • Algorithms • Networking • WebSocket

### Application Designer Developer

Bachelor's degree

CFA INSTA

Paris, France • Sept. 2023 - Aug. 2024

Full-Stack Web Development • Software Architecture • Project Management • Databases • Mobile Application Development

### BTS SIO SLAM

Associate's degree

CFA INSTA

Paris, France • Oct. 2021 - Aug. 2023

Full-Stack Web Development • Mobile Application Development • Databases • French • English • Management • Mathematics

## Activities & Hobbies

### Communication Manager – Student Union (BDE)

Sept. 2023 - Present

CFA INSTA

- Management of the student union's social media accounts
- Creation and sharing of content related to corporate partnerships and student opportunities

### Photography