Alexandre Pauly

STUDENT

Objective

I'm a final-year Mathematics engineering student with a passion for the world of Data. Active in project development, I've acquired a wide range of skills that I showcase in my Portfolio.

Languages

French - Native

English - B2

Spanish - B1

Soft skills

Autonomy
Creativity
Team spirit and calm
Adaptability and stress resistance
Organized and meticulous

Contact

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www.linkedin.com/in/pauly-alexandre

alexandrepauly.github.io/portfolio

Applied Mathematics Engineer

Education

CY TECH - PAU
ENGINEERING DEGREE IN APPLIED MATHEMATICS - OPTION HIGH PERFORMANCE DATA ANALYTICS (BIG DATA)
SEPTEMBER 2022 - AUGUST 2025
- Image denoising by ACP project in Java
- Fingerprint recognition project in Python
- Website development in HTML, CSS, JavaScript and PHP

NATIONAL YANG MING CHIAO TUNG UNIVERSITY
EXCHANGE PROGRAM, HSINCHU (TAÏWAN)
FEBRUARY 2024 - JUNE 2024
- Organ recognition project on medical images using semantic segmentation in Python (Keras and TensorFlow)
- Generative AI project to build a drone navigation race in a natural environment using Python (TensorFlow)
- Development of a mobile application to manage a training log using React Native and SQLite

UNIVERSITÉ OF PAU
MIASHS DEGREE (MATHS AND COMPUTER SCIENCE APPLIED TO THE HUMANITIES AND SOCIAL SCIENCES)
SEPTEMBER 2019 - MAY 2022

Experience

DATA MANAGEMENT & ARCHITECTURE APPRENTICESHIP
SAFRAN | TARNOS
SEPTEMBER 2024 - SEPTEMBER 2025
Improving the maturity of digital products, building monitoring tools and steering indicators for better data management, working with different teams to align architecture diagrams (Collibra and ArchiMate).

4-WEEK ASSIGNMENT AT TOTAL ENERGIES
TOTAL ENERGIES | PAU
JULY 2024
Development using tools such as Ansible, PowerShell and Python scripts, review of internal processes and online documentation, exchanges with service offering managers to make their processes more reliable.

INTERNSHIP AT CECLANT DIGITAL LABORATORY
MARINE NATIONALE | BREST
JUNE 2023 - AUGUST 2023
Web application development in Angular and Node.js (frameworks DevExtreme et Sequelize)

Expertise

IT TOOLS
Procedural programming : C, C++, Bash
Object-oriented programming : Java, C++
Web development : HTML5, CSS, JS, PHP, Angular, NodeJS, React
Data analysis/processing : R, Python, Excel, Power BI
Database : SQL, MySQL, Sequelize, Access
Tools : Git, AGILE, docker, Figma
Environment : WIndows, Linux