Pierre-Louis Veyrenc

MEng Student @CentraleSupélec | DevOps Intern @AMD

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</> TECH SKILLS

Languages & Development skills
Python, Java, JavaScript, Groovy, C++

SQL Databases, RESTful services, web development

Data Science, AI & Machine Learning
Deep Learning, CNNs, NLP, Computer Vision

Frameworks & Libraries: TensorFlow, Scikit-learn, Pandas, PyTorch

DevOps & System admin.
Linux, Docker, CI/CD (Jenkins & GitHub actions), networking

Mobile development
Android Studio, Java

Tools
Git, CUDA Compute, Jupyter/Colab, VSCode

🧠 SOFT SKILLS

Design Thinking
User-centric design methodology

Graphic Design
PowerPoint, Canva, Illustrator

Teamwork
Public speaking, leadership

Project management
Agile & Scrum

🌐 LANGUAGES

French

English
Fluent - Grew up in English-speaking Singapore

Spanish
6 years school study

Japanese
2 years school study

{ } TECH PROJECTS & EXPERIENCE

Advanced Micro Devices (AMD), *DevOps Intern*
Aug 2023 — Feb 2024 | Cologne, Germany

Design and administration of CI / CD infrastructure for 3 large-scale projects, supporting 60+ developers. I helped maintain, extend and generally improve build&test pipelines, as well as develop various automations for all 3 projects (automatic reporting, package dependency updates, package publishing etc.)
💡 DevOps · Continuous Integration & Delivery (CI/CD) · Linux System Administration · Hybrid Teamwork
⚙ Jenkins CI · GitHub Actions · Bash scripting · Docker · Python (scripting and packaging system) · JavaScript (Node.js) · CMake · Ninja build system · Renovatebot · Webservice technologies

Paris Digital Lab
Feb 2023 — Aug 2023 | Neuilly-sur-Seine, France

The Paris Digital Lab is an open innovation program during which students work on 3 innovative tech projects, prototyping solutions for various high-profile companies, using Agile and Scrum methods.

Groupama - Aerial image segmentation for disaster risk estimation
Designed and built pipelines for automatically downloading, storing, and processing (resize, format changes, stitching etc.) aerial photos of the French territory. These images were then segemented using a CNN, in order to calculate vegetation density and soil permeability for use in Groupama's models.
💡 Image Processing · Image Segmentation · Big data storage · CNNs · GPU Acceleration
⚙ Google Cloud Platform · Pytorch · Python · CUDA

Bureau Veritas - Search engine for nuclear plant discrepancy reports
Bureau Veritas is a major French and international testing, inspection and certification company.
Helped design, develop and implement a full-stack platform for indexing, searching through and analyzing discrepancy reports originating from the Flamanville nuclear power plant.
💡 Natural Language Processing · Search Engines · Statistical Analysis · DevOps & Web deployment
⚙ ElasticSearch · Python · FastAPI · NGINX · Docker · Google BERT · DPR

France Université Numérique / BigBlueButton - Educational video enrichment using LLMs
Developed AI methods for enriching educational video content, like online courses: generating transcripts, title, description, summary & MCQ generation, open-domain question answering... Results will be presented at the "AI & Education" conference in Paris, June 8-9 /2023.
💡 NLP · Large Language Models · Speech Recognition (ASR) · Prompt engineering · Web dev.
⚙ Python · PyTorch · ReactJS · ChatGPT API · LLaMa · Tesseract · LSTM Models · LangChain

CentraleSupélec (student projects)

Long-term project - Drone conception

Designed and built an autonomous drone for the DroneLoad student competition. Was responsible for the computer science and programming aspect of the project.
💡 Computer Vision · Control System Design · Network Design
⚙ NVIDIA Jetson & JetPack · Pixhawk · Python · TensorFlow · PX4 Autopilot · GStreamer/FFMpeg

Teaching Assistant
Helped teach the *Programming and Information Systems* course for first-years: animating tutorials on topics such as Python programming, Git, basic Linux administration, SQL, networking...
💡⚙ Network Administration · SQL & Databases · Linux / Bash · Python · Git · Cybersecurity

Personal Projects

Home Network & Server / NAS

Repurposed an old computer as a home server, providing many services such as file sharing and network administration, while also re-doing the home network.
💡 Network & System administration & security · web & Internet hosting · virtualization/containerization
⚙ Docker · unRAID · WireGuard VPN · CloudFlare · DNS · SSL/TLS (HTTPS)

🎓 EDUCATION

CentraleSupélec, *Master of Engineering, Computer Science*
2021 — Now | Gif-sur-Yvette, France

Elite French engineering school with a highly selective admissions process, and a core part of the Université Paris-Saclay - France's highest-ranking university.
📚 Advanced mathematics (Analysis, Calculus, (Linear) Algebra), Statistics, Algorithms, Computer Networks & Security, Object-oriented Programming, Processor Design, IoT
🎓 4.01 / 4.33 GPA (15.7/20 in the French system)