

ALEXANDRE GRAVEREAUX

MS Student at CentraleSupélec, Paris-Saclay

CONTACT

✉ alexandre.gravereaux@student-cs.fr
📧 alexandre-gravereaux
🌐 www.alexandregravereaux.xyz
📧 alexgravx

PHILOSOPHY

“Stay hungry, stay foolish.”

SKILLS

Soft skills

Leadership Synthesis capacity

Team skills

Management Teamwork Agility

Programming Languages

Python R Javascript Swift Go

Fullstack Development

NodeJS ExpressJS ReactJS NextJS

Data and ML

Pandas Scikit Keras Plotly SQL

DevOps

Docker Kubernetes Nginx CI/CD

LANGUAGES

French: Native

English: C1 level

German: B1 level

OTHER EXPERIENCES

CentraleSupélec | Teaching Assistant in Computer Science

Fall 2023, Paris

Led **30 hrs of Information Systems and Programming tutorials** for 40 students, about relational databases, networks and Extract, Transform & Load processes. Answered **student's questions**, provided feedback on and graded **student's exams**

College Stanislas | Volunteer tutor

Spring 2019, Paris

Helped struggling student in **mathematics and physics** with a step by step learning approach

HOBBIES

Sport: tennis for 12 years, competitive ski for 15+ years and surf

Music: Piano and music theory for 10+ years at the Conservatory and 4 years of choir singing

Contests: Took part in the French National Computer Science Contest, Prologin, in 2020, 2021 and 2023. Earned **CodingGame Top 1% Python Certification**

EDUCATION

CentraleSupélec, Paris-Saclay | Master of Engineering 2022 - 2026

CentraleSupélec is one of the most selective French “Grande École” (schools of science and engineering). The school is part of Université Paris-Saclay, which ranks **12th in the Shangai Academic Ranking of World Universities**. Average GPA: 3.86 / 4
Computer Science • Statistics • Optimization • Machine Learning • Algorithmic and Complexity • IT Project management

Collège Stanislas, Paris | Preparation Courses 2020 - 2022

Intensive advanced mathematics and physics to prepare for the **highly competitive entrance exams** to the French “Grandes Ecoles”. Average GPA: 3.98 / 4
Mathematics (Algebra, Analysis, Statistics) • Physics

EXPERIENCE

Forvis Mazars Group, Paris | Data Engineer Fall 2024

Internship in Data Services and R&D branch of Forvis Mazars group.

Mission #1: Update of a financial fullstack app, with several new features

Python • VueJS • FastAPI • Celery • Azure

Mission #2: Creation of a code converter (parser) to translate scripts from SAS language to R or Python. Development of a CI/CD pipeline to automate linting and execution of translated scripts. **SAS • R • Abstract Syntax Tree • Lexer • Parser • ANTLR**

Paris Digital Lab | Software Engineer Spring 2024

Agile prototyping at the @ParisDigitalLab Incubator, developed 3 minimum viable products in a 7-week constraints for real-world business, using scrum methodology

- **Project #1:** Developed an IOS companion app for the **Sencial** startup, to help hearing-impaired people exchange in noisy environments, via AirPods . The app is connected with Apple Health app and uses audio modulation and AI denoising
Swift • SwiftUI • AVAudioEngine

- **Project #2** Developed a tax credit file companion for **Thales** using data parsing and Large Language Models. The tool automatically generates administrative records for tax refund with documents from the R&D department
Python • HuggingFace TGI • LangChain • StreamLit

- **Project #3** Designed and developed an automated A/B Testing platform for the **Wiloki & Adibou** startup. The tool can analyze and compare algorithms performance based on different user profiles with a dashboard to enhance data insights
Go • Docker • Kubernetes • Helm • RabbitMQ

ViaRézo Student Club | Treasurer and DevOps 2022-2024

ViaRézo is a student club which maintains a network infrastructure and provides Internet access to **2000+** residents on Paris-Saclay campus, via fiber and Wifi.

- **Treasurer and board member** Led and managed a 30+ active members team through general meetings and boards of directors. Organized activities and events with a budget of **half a million €**. Worked with a certified accountant.

Organized **TRACS**: a nationwide cybersecurity and intelligence event with the French government

Leadership • Teamwork • Negotiation • Corporate finance

- **DevOps Engineer:** Maintained switches infrastructure. Managed a database of **10,000+** members and operated several websites and applications related to CentraleSupélec's associative life through a virtualization cluster
Sysadmin • GitLab • Ansible • Docker • Openstack • Kubernetes • CI/CD • networks • JunOS • switches and DHCP

CentraleSupélec | Student Projects 2022-2023

- Web-based **film recommendation platform**
Javascript • ReactJS • ExpressJS • Vectorial Embedding • MapReduce

- **Satellite-based soil analysis** using several AI methods.
K-means • SVM • Deep neural networks.

- **Twitter insult detector** using Twitter API
Python • Pandas • TextBlob • SciKit • RandomForest • Dash