Jules ESPINOUX

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Final-year Master of Engineering student at ISAE-SUPAERO, majoring in Data Science. Seeking a 6-month Software Engineering/Data Science internship starting March/April 2026.

EDUCATION

ISAE-SUPAERO   **2022 − 2026**
Master of Engineering, Data and Decision Science   *Toulouse, France*
  - **Anticipated Coursework:** Advanced Machine Learning, Deep Learning (PyTorch, TensorFlow), Big Data Engineering, High Performance Computing.
  - **Coursework:** Computer Science (Data Structures and Algorithms, Object-Oriented Programming), Mathematics (Optimization, Statistics, Advanced Probability, Linear Algebra).

University of Limerick   **Autumn 2024**
Erasmus semester, Data Science   *Limerick, Ireland*
  - **Coursework:** Machine Learning, Database Systems (SQL/NoSQL, AWS), Advanced Data Analysis.

Lycée Déodat de Séverac   **2020 − 2022**
PTSI - PT*, Preparatory program for French top engineering schools (ranked 2nd in Mathematics)   *Toulouse, France*

EXPERIENCE

Software Engineer - Freelance   **Aug. 2025 − Present**
Athena Studio   *Luxembourg City, Luxembourg*
  - Developed a full-stack dashboard (React.js, Supabase, PostgreSQL); defined KPIs and applied data visualization to improve AI agent usage monitoring and decision-making.
  - Implemented integration tests with Vitest and set up execution in GitHub Actions CI/CD pipelines, increasing automated test coverage from 0% to 85%.

Software Engineer - Intern   **Feb. 2025 − July 2025**
Salomon   *Annecy, France*
  - Developed a beta mobile application with Flutter (iOS/Android), expanding the tester base from 8 to 120 users.
  - Led backend development by building Serverless REST APIs with Node.js and designing scalable data pipelines with AWS DynamoDB and S3, enhancing data availability and supporting mobile feature integration.
  - Automated multi-env deployments and CI/CD pipelines, including App Store and Play Store releases.
  - Partnered with UX designer, led workshops, and conducted 10+ user interviews to refine features. Participated in daily Agile stand-ups, gaining solid Scrum experience.

Software Engineer - Intern   **March 2024 − July 2024**
Centre National de Ski Nordique   *Prémanon, France*
  - Conceived from scratch a full-stack analytics platform using PostgreSQL, FastAPI, Docker and Streamlit. Introduced new performance insights, and reduced race analysis time by 70%.
  - Collaborated with national biathlon coaches to deliver detailed data insights for the 2025 Biathlon World Championships, contributing to the French teams' record-breaking medal performance.

PROJECTS & ONLINE COURSES

Building Ambient Agents [Online Course] | *Python, LangChain*   **July 2025**
  - Implemented an end-to-end email management agent from scratch, integrating evaluation, human review, and memory to improve accuracy.

Hackathon ENS | *PowerShell, Makefile, Docker*   **June 2025**
  - Created a PowerShell script to streamline Windows dependency setup, cutting bugs and boosting speed by 15%.

Sokoban Game | *Python, C, Streamlit, PostgreSQL, FastAPI, Docker*   **2023**
  - Built a Sokoban game and solver in C, achieving 50% faster solutions using binary trees. Designed a full-stack system with PostgreSQL, FastAPI, and Streamlit to store and visualize user performance data.

TECHNICAL SKILLS

Languages: Python, TypeScript, C, SQL, Git.
Frameworks: Scikit-learn, Flutter, Streamlit, FastAPI, Selenium, LangChain/LangGraph, Jest, Vitest.
Cloud & DevOps: AWS (Lambda, API Gateway, DynamoDB, S3), Docker, Supabase, Vercel, Fastlane, GitLab CI/CD, GitHub Actions, Jira.

ADDITIONAL ACTIVITIES

  - **Chess:** Competitive FIDE player (Elo 1954), consistently ranked top 20 nationally in French Youth Championships and multiple-time regional champion.
  - **Triathlon** – Regularly compete in endurance events, demonstrating discipline, goal-setting, and long-term commitment to physical and mental performance.