Jules ESPINOUX

julespinoux@gmail.com | +33 6 82 75 75 45 | LinkedIn | GitHub | Website

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*
  − **Coursework:** Machine Learning, Deep Learning, Big Data Engineering, Data Structures and Algorithms, Mathematics (Optimization, Statistics, Advanced Probability, Linear Algebra).

University of Limerick   **Autumn 2024**
Erasmus semester, Data Science   *Limerick, Ireland*
  − **Coursework:** Machine Learning, Database Systems (SQL, AWS), Data Analytics.

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

EXPERIENCE

Software Engineer Intern   **August 2025**
Athena Studio   *Luxembourg City, Luxembourg*
  − Designed and implemented a full-stack dashboard using React.js and Supabase PostgreSQL database to monitor AI agent customer usage, improving visibility and decision-making.
  − Implemented integration tests for Microsoft API features using the Vitest framework, reducing bugs by 90%.

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*
  − Developed from scratch a full-stack analytics platform using PostgreSQL, FastAPI, Docker and Streamlit. Introduced new performance insights, and reduced race analysis time by 70%.

PROJECTS

Agents From Scratch | *Python, LangGraph, LangChain, LangSmith, Pytest*   **July 2025**
  − Developed an end-to-end email management agent from scratch, integrating evaluation, human review, and memory to improve accuracy and adaptability.

Hackathon ENS | *PowerShell, Makefile, Docker*   **June 2025**
  − Built 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 (Node.js, React.js), C, SQL, Git.
Frameworks: Flutter, Streamlit, FastAPI, Selenium, LangChain/LangGraph, Jest.
Data Science: Scikit-learn, PyTorch, TensorFlow.
Developer Tools: AWS, Docker, Fastlane, GitLab, GitHub, 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.