Timothée Juillet

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Full-Stack / ML Engineer at Amadeus. Final year Computer Science student at Polytech Nice-Sophia, specialized in artificial intelligence and data engineering. Passionate about developing innovative solutions combining software engineering and machine learning.

Professional Experience

2025 – 2025 **Full-Stack / ML Engineer**, Amadeus, Sophia Antipolis.
Development of an AI-powered application for automated log analysis and error extraction from the Front Office Reservation division products. Implementation of a data pipeline using Splunk, Jenkins, and Python scripts on Microsoft Azure. Integration of chatbot APIs for intelligent pattern recognition and automatic Splunk rule generation.

2024 – 2024 **AI/ML Research Intern**, Danang International Institute of Technology (DNIIT), Vietnam 🇻🇳.
Creation of a CNN model in Python able to recognise Vietnam's most visited places using Tensorflow and Jupyter. Developed a complete mobile application using React Native, Vite and Tailwind implementing the model with TensorflowJS and an API, providing location information and tourist recommendations.

2022 – 2022 **Software Engineering Intern**, Inria Sophia Antipolis for Terra Numerica.
Federative project involving CNRS, Inria and Université Côte d'Azur. Development of "The March of the Ants", an interactive web application simulating ant colony optimization algorithms for pathfinding. Implementation using HTML, CSS and TypeScript with real-time visualization.

Education

2022 – 2025 **Engineering Degree in Computer Science** (*Diplôme d'ingénieur*), Polytech Nice Sophia.
Specialty: *Artificial Intelligence & Data Engineering*.

2024 – 2024 **Exchange Semester**, Hong Kong City University (HKCU), Hong Kong 🇭🇰.
Ranked 62nd best university worldwide, to study artificial intelligence, cloud computing and cybersecurity.

2020 – 2022 **Two-year University Degree in Technology** (DUT), IUT Nice Côte d'Azur.
Specialty: *Computer Science*. Ranked 4th out of 89 students.

2017 – 2020 **Scientific Baccalaureate** (S.SI), Jules Ferry High School, Cannes.
With the highest honors.

Skills

Programming	Python, Java, C/C++, C#, JavaScript/TypeScript, SQL, HTML/CSS, Kotlin, PL/SQL, Bash
AI & Machine Learning	Deep Learning (CNNs, GANs), Machine Learning, Computer Vision, MLOps, Data Science. **Frameworks:** TensorFlow, PyTorch, Scikit-learn, Jupyter, TensorFlow.js
Web & Mobile Development	React Native, Angular, Android, Vite, Tailwind CSS, D3.js
DevOps & Cloud	Docker, Git/GitHub, Jenkins, Splunk, Maven, CI/CD, Microsoft Azure, Cloud Computing

Skills (continued)

Systems & Architecture	▮	Linux, OOP, Data Structures, Algorithms, IoT, Cybersecurity, System Architecture, DBMS
Soft Skills	▮	Project Management, Teamwork, Communication, Problem Solving
Languages	▮	French (Native), English (C1 - TOEIC 965), Italian (Basic), Japanese (Basic).

Projects I'm Proud Of

1 T. Juillet and G. Arrigoni, *Identification of concepts in features learned by image classifiers*, Research project developing a novel methodology for identifying and clustering visual concepts (eyes, paws, horns) in CNN features. Implemented double-clustering approach on VGG16 to automatically detect and group similar activation patterns across different animal classes. Technologies: Python, PyTorch, KMeans clustering, Layer-wise Relevance Propagation (LRP), Feb. 2025. 🔗 URL: `https://github.com/TimJuillet/PER`.

2 T. Juillet, *Interactive data visualization dashboard*, School project creating an interactive dashboard for complex data visualization. Implementation of multiple chart types with real-time filtering and responsive design. Technologies: D3.js, JavaScript, HTML/CSS, Jun. 2024. 🔗 URL: `https://github.com/TimJuillet/Data_Visu_Rendu`.

3 T. Juillet and T. Members, *Olympic games management system*, Comprehensive system for managing Olympic Games events, athletes, and results. Implementation of complex database architecture with real-time updates. Technologies: Java, MySQL, JavaFX, JDBC, Apr. 2024. 🔗 URL: `https://github.com/TimJuillet/ProjetJO`.

4 T. Juillet, *Ai dinosaur image generator*, Personal project implementing generative AI to create dinosaur images. Exploration of GANs and diffusion models for creative image generation. Technologies: Python, TensorFlow, GANs, Dec. 2023. 🔗 URL: `https://github.com/TimJuillet/Dinosaures_generate`.

5 T. Juillet and T. Members, *Ps6 - polyquiz*, Group school project on Github to create a quiz website for the elderly using a user-centered approach. Technologies used: Angular, Docker, Playwright, Jun. 2023.

6 T. Juillet and T. Members, *Takenoko game*, Group school project on GitHub of a complex board game with bots. GitHub usage learning, continuous integration, OOP (GRASP, SRP, SOLID). Technologies used: Java, Maven, GitHub Actions, IntelliJ, Sonarqube, Mockito, Mar. 2023.

Miscellaneous Experience

Awards and Distinctions

2024	▮	**Finalist Hackathon Polytech Nice 2024**.
	▮	**Thalès Battle Dev 2024** – Ranked 15/334.
2023	▮	**Thalès Battle Dev 2023** – Ranked 49/470.
2016	▮	**Winner of the Pobot Junior Cup** – Representing middle school Emile Roux, Sophia Antipolis.
2015	▮	**Regional Indoor Archery Champion**.

Certifications

2024	▮	**TOEIC** – Score: 965/990 (ETS EMEA, Valid until Jan 2026).