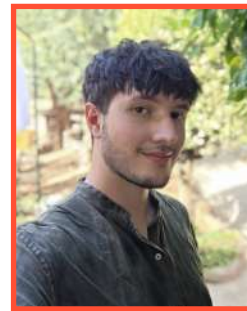# Timothée Juillet

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📞 +33 7 81 68 11 23   📍 Le Cannet, France

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 🇻🇳.
Development of a complete CNN-based landmark recognition system for Vietnam tourism. Created dataset of 10,000+ images, trained multiple deep learning models achieving 92

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
Systems & Architecture	🔖 Linux, OOP, Data Structures, Algorithms, IoT, Cybersecurity, System Architecture, DBMS

Skills (continued)

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), Computer Vision, Feb. 2025. 🔗 URL: `https://github.com/TimJuillet/PER`.

2 T. Juillet and T. Members, *Semantic web olympic games management system*, Design and implementation of a knowledge-based system for Olympic Games management using semantic web technologies. Created comprehensive ontologies in OWL to model athletes, sports, events, medals, and countries. Developed complex SPARQL queries for data retrieval and inference. Built Python interface for querying and visualizing Olympic data relationships. Technologies: Python, OWL, RDF/RDFS, SPARQL, Protégé, Semantic Web, Knowledge Graphs, Jan. 2025. 🔗 URL: `https://github.com/TimJuillet/ProjetJO`.

3 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: JavaScript, D3.js, HTML/CSS, Data Visualization, Nov. 2024. 🔗 URL: `https://github.com/TimJuillet/Data_Visu_Rendu`.

4 T. Juillet, *Vietnam landmarks recognition - complete system*, Final internship project: Complete CNN-based system for recognizing Vietnam's landmarks. Includes trained models, mobile application, and comprehensive documentation. Technologies: Python, TensorFlow, React Native, TensorFlow.js, Computer Vision, Aug. 2024. 🔗 URL: `https://github.com/TimJuillet/Vietnam_Internship`.

5 T. Juillet, *Ai dinosaur name generator*, Personal project using AI to generate new dinosaur names based on existing ones. Implementation of character-level language models for creative name generation. Technologies: Python, Jupyter Notebook, Deep Learning, NLP, Dec. 2023. 🔗 URL: `https://github.com/TimJuillet/Dinosaures_generate`.

6 T. Juillet, *Cycling management system with soap*, Implementation of a distributed cycling management system using SOAP web services. Development of client-server architecture for managing cycling events and participants. Technologies: C#, SOAP, Web Services, .NET, Dec. 2023. 🔗 URL: `https://github.com/TimJuillet/Cycling-SOAP`.

7 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.

8 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.

Miscellaneous Experience (continued)

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).