

# Gabriel Monteillard

+33 6 52 86 28 55 | [gabriel.monteillard@gmail.com](mailto:gabriel.monteillard@gmail.com) | [linkedin.com/in/Gabriel](https://linkedin.com/in/Gabriel) | [github.com/CornFlexxxxxxx](https://github.com/CornFlexxxxxxx)

Final year EPITA computer science student specializing in AI and Cognitive Sciences, seeking Research Engineer or AI Engineer positions. Passionate about machine learning, natural language processing, and innovative AI applications with hands-on experience in deep learning frameworks and distributed systems.

## PROJECTS

- Business Reviews NLP Analysis** | *Python, PyTorch, DistilBERT, React* 2025
- Developed sentiment analysis models using ML algorithms and fine-tuned DistilBERT on 100k reviews
  - Implemented GPT-2 text generation and built interactive web interface for model testing
- Ship Classification with VGG-Style CNN** | *Python, TensorFlow, Computer Vision* 2025
- Developed constrained CNN achieving 82.69% accuracy on degraded 32x32 ship images with severe class imbalance (3.86:1 ratio), optimizing VGG architecture within 25-layer competition limit through intelligent class weighting and spatial detail preservation
- AI-Powered Minecraft Companion Bot (Mistral AI Hackathon)** | *Python MCP, TypeScript* 2025
- Built TypeScript REST API with endpoints connecting Minecraft bot to server, enabling autonomous mining, crafting, building, and player interaction
  - Developed Python MCP server bridging Mistral AI's Le Chat to the bot API, transforming natural language commands into complex autonomous behaviors
- IoT Washing Machine PoC** | *Scala, Kafka, Spark, Cassandra* 2025
- Developed distributed IoT system for washing machine management with 3-tier Data Lake architecture
  - Implemented real-time processing using Kafka and Spark Streaming with anomaly detection and multi-channel alert system
- TinyX Platform** | *Java, Kubernetes, Docker, MongoDB, Neo4j, Redis* 2025
- Built distributed social media platform with 7 microservices using sharded MongoDB, Neo4j, and Redis clustering
  - Designed containerized deployment supporting 150+ cores, 260GB+ memory with automated CI/CD pipeline

## EXPERIENCE

- Software Development Intern** Sep 2024 – Jan 2025  
*Vesto Paris, France*
- Automated data synchronization between Vesto and partner databases using REST APIs
  - Developed internal tools and workflow automations using React Admin, Make, and Airtable
- Cybersecurity Intern - CISO Team** June 2022 – July 2022  
*Savencia Viroflay, France*
- Developed a cybersecurity "points-based permit" system for employee security awareness
  - Conducted phishing simulation campaign targeting 14,000+ employees

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, Scala, SQL (PostgreSQL), JavaScript, TypeScript  
**Frameworks & Libraries:** PyTorch, TensorFlow, scikit-learn, Hugging Face, React, Spark, FastAPI, Streamlit, pandas, NumPy, NLTK  
**Tools & Platforms:** Git, Docker, Kubernetes, AWS, Azure, MongoDB, Neo4j, Redis, MinIO, Elasticsearch, CI/CD

## EDUCATION

- EPITA - Graduate School of Computer Science** Kremlin-Bicetre, France  
*Master's in Computer Science - AI and Cognitive Sciences (SCIA)* Sep. 2021 – May 2026

## ADDITIONAL EXPERIENCE

- Vice President** 2025 – 2026  
*Paillote (Cocktail Association), EPITA Paris, France*
- Organized events for 1000+ participants, focusing on staff wellbeing and delivering keynote speeches
  - Redesigned organizational system using Notion, improving team coordination and event management efficiency
- Exchange Student** Jan 2023 – June 2023  
*San Francisco State University San Francisco, CA*
- Completed 6-month academic exchange program, gaining international experience and cross-cultural perspectives