

Gabriel Monteillard

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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: PyTorch, React, Spark, FastAPI, Streamlit, TensorFlow
Developer Tools: Git, Docker, Kubernetes, MongoDB, Neo4j, Redis, MinIO, Elasticsearch, CI/CD
Libraries: pandas, NumPy, scikit-learn, NLTK, Cassandra, Hugging Face

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