

PHAM DANG Son Alain

AI Engineer

✉ pham.sonalain@gmail.com ☎ +33 638057735 📍 Paris, France 💻 son-alain-pham-dang-206328301 🌐 sonalain077

SUMMARY

Engineering graduate from ESIEE Paris (Data Science & AI), specialized in designing business-impact AI solutions from use case identification to the deployment of agentic architectures. Experience at Orange Innovation transforming network operations processes through generative AI, and in client project management (Junior ESIEE). **Available from September 2026.**

PROFESSIONAL EXPERIENCE

AI Engineer for Optical Network Management, Orange Innovation
02/2026 – Present

- Development of an AI agent architecture (LangGraph) enabling technicians to query Orange's optical network data in natural language, reducing field information search time.
- Development of an MCP server leveraging a GraphQL API connected to the PostgreSQL database, giving the LLM the ability to query and process complex network data.
- Development of the solution's industrialization (DevOps environment, CI/CD pipelines) to ensure agent reliability before production integration.

Business Project Manager, Junior ESIEE 
01/2025 – 02/2026

- End-to-end management of 5+ client engagements on tech topics, from needs analysis to final delivery.
- Budget management ranging from €1,000 to €20,000 depending on project complexity.
- Drafting of business proposals and client presentations; coordination of student-consultant teams.
- Monitoring of deadlines, budgets, and deliverable quality across all engagements.

Design and Development of a Thematic Analysis Pipeline Using Agentic AI, Lisis Laboratory (Research Internship)
05/2025 – 08/2025

- Comparative study of sociological biases and behaviors across 5 LLMs (LLaMA, GPT...) in addressing human and societal issues.
- Design of a multi-agent architecture (LangGraph) automating Braun and Clarke's thematic analysis method (a reference framework in sociology) to process a corpus of around thirty interviews via the Groq API.
- Integration of inter-agent validation and consistency mechanisms to ensure the reliability of thematic coding and automatically generate structured sociological reports.

PROJECTS

Kaggle Project – Building Energy Consumption Prediction 
03/2025 – 05/2025

- Feature engineering using Pandas and Seaborn to extract key variables influencing building energy consumption.
- Development, evaluation, and fine-tuning of high-performing Machine Learning models (XGBoost, Random Forest) via GridSearchCV.

Data Engineering Project
11/2024 – 12/2024

- Development of web scraping scripts (Scrapy) to automate the collection, extraction, and preparation of web data.
- Structuring and modeling of collected data, with integration into a MongoDB database and caching via Redis to improve performance.
- Indexing and centralization of logs via Elasticsearch/Kibana to monitor and track pipeline activity.
- Design of a visualization application with Dash and an interactive dashboard for real-time data querying and analysis.

EDUCATION

Engineering Degree, ESIEE Paris 
2021 – 2026

Data Science and Artificial Intelligence specialization

Exchange Semester, Brno University of Technology 
09/2023 – 01/2024
Erasmus program in the Czech Republic

High School Diploma, Lycée Français International Marguerite Duras 
Vietnam
French Baccalaureate with Honors (Computer Science and Mathematics majors)

TECHNICAL SKILLS

Programming and Core Tools

- Languages: Python, SQL, Java, C, R
- Environment & Versioning: GitHub, GitLab, Linux/WSL2

AI and Machine Learning

- ML Frameworks: PyTorch, TensorFlow, Scikit-learn
- Generative AI & Agents: LLMs (LLaMA, GPT), LangGraph, LangChain, FastMCP (MCP), RAG, n8n
- NLP & Data Analysis: Pandas, Seaborn, Natural Language Processing, Thematic Analysis

Data Engineering and Tools

- Pipelines & Frameworks: Web Scraping (Scrapy), PySpark, Kibana
- Databases: PostgreSQL, MongoDB, Redis, GraphQL, MySQL
- Visualization: Dash, Streamlit, Grafana
- Infrastructure & CI/CD: Docker, Kubernetes, GitOps/DevOps, AWS

LANGUAGES

- English (IELTS C1)
- French (Certificat Voltaire)
- Vietnamese (Native language)

INTERESTS

- 15 years of tennis - Ranked 16th nationally (Vietnam) competed on the ITF junior circuit
- Captain of the ESIEE basketball team
- Vice-president of the poker club
- Piano – 10 years (Diploma from the University of West London)
- Member of the student union list (BDE)