

ÉDOUARD JOGGERST

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Computer Science student with hands-on experience building distributed systems, backend infrastructure, and internal tooling that improves developer workflows. Strong interest in building reliable systems and improving the developer experience by providing clear and maintainable tools. Interested in infrastructure engineering and developer productivity.

EDUCATION

Paris 1 Panthéon-Sorbonne University Paris, France

Bachelor's in Applied Mathematics and Computer Science Sep 2024 – Jun 2026 (Expected)

- Coursework: Real Analysis, Linear Algebra, Probability & Statistics, Advanced Algorithms, Numerical Methods, Data Structures, Data Processing, Programming (Python, Java)

TECHNICAL PROJECTS

Real-Time Multi-Client Chat System Java, Sockets, Multithreading

- Designed and built real-time client-server application supporting 50+ concurrent connections with thread-safe message broadcasting
- Implemented a thread-pool-based architecture with a custom communication protocol for efficient message broadcasting
- Improved system stability by handling edge cases (disconnected clients, malformed packets, idle connections)
- Added lightweight monitoring (timestamps, connection events, error logs) to improve debugging and system visibility

Wildfire Risk Prediction System Python, scikit-learn, Pandas, ML

- Built automated ETL pipeline processing 500+ meteorological records, reducing manual data preparation
- Developed scalable data processing pipeline with scalable backend services achieving 87% model accuracy using regression and decision-tree algorithms
- Created visualizations: correlation heatmaps, risk zone mapping, model performance metrics (MAE, RMSE)

REST API + Project Monitoring Dashboard Python, Flask, WebSocket, Chart.js

- Built internal developer tooling improving team workflow by reducing the number of manual steps.
- Designed SQLite database with full CRUD operations, JWT authentication, and real-time dashboard (Chart.js)
- Implemented monitoring/logging system with automated statistics, CSV/JSON export for analytics

Dev Workflow Automation CLI Tool Python, scikit-learn, Pandas, ML

- Built CLI tool automating repetitive developer tasks (log cleanup, format checks, test execution) with modular command architecture

Lightweight Monitoring Service Python, SQLite

- Developed monitoring service capturing runtime metrics (latency, errors, events) to improve visibility during local testing

PROFESSIONAL EXPERIENCE

Alsace Lait Strasbourg, France

Production Line Assistant Jul 2024 – Aug 2024

- Supporting production operations and quality control in a regulated industrial environment

Student Association in Mathematics and Computer Science Paris, France

Logistics & Events Lead Sep 2023 – Jun 2024

- Organised a technical conference on AI and data science attracting 200+ participants with expert speakers (Alumneye)
- Managed merchandising projects (500+ items), designed visual assets, optimized logistics processes

SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Frameworks/Tools: Git, pandas, NumPy, Matplotlib, Flask, scikit-learn, Chart.js, SQLite

Developer Skills: Concurrency (threads, locks), logging & debugging, ETL workflows, basic shell scripting

Languages: French (Native), English (Fluent/C1), German (B2), Spanish (B2)

Interests: Brazilian Jiu-Jitsu, Football, Tennis, Technology trends