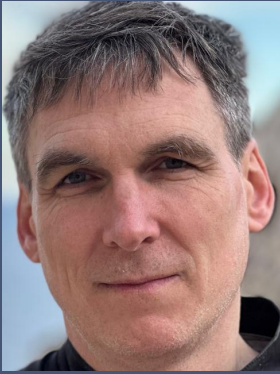


Senior Software Engineer

LUDOVIC AUBERT



PROJECT

I hold an Engineering degree from the Ecole Centrale in Paris and combine a strong background in Mathematics with 25 years of experience working on diversified software and data projects. In the first period of my career, I mostly worked on C++ projects, some of which required algorithmic design. In the second period, I mostly worked on Data projects. I am looking for complex and critical projects using a mix of data, software and web technologies.

CONTACT

@ ludo.aubert@gmail.com
☎ 06 68 40 98 26
🌐 github.com/ludoaubert

LANGUAGES

Francais (native), **Espagnol** (B1),
Allemand (C2), **Anglais** (C2)

SKILLS

- C++, SQL, CSS
- Javascript, JSON, HTML
- SQL Server, PostgreSQL, Oracle
- NodeJS
- Communication and team collaboration

RÉALISATIONS

SENIOR SOFTWARE ENGINEER at *Ipside (La Defense)*. **2021–2025**

PATENT DATABASE SCHEMA MIGRATION AND MERGE

◊ . I performed the migration into a new schema and merger of patent databases during a company acquisition. This initiative saved hundreds of thousands in cloud costs, streamlined data management, and supported the integration of three companies, valued in millions.

PATENT INVENTOR DEDUPLICATION PROCESS

◊ Developed a graph algorithm to deduplicate inventor data, consolidating multiple records into a single inventor table. Successfully created a table with 16,000 unique inventors, improving data reliability.

EXTRACTION OF 4 MILLION DOCUMENTS

◊ Wrote scripts and ran the extraction of 4TB of archived corporate documents from Oracle (files stored in DB) into the filesystem.

DEVELOPED A MODULE USING C++

◊ development functionality to create a directory structure to store legal documents on the migration target system. The structure depends on a set of parameters specific to a patent.

PROTOTYPE DEVELOPMENT OF A PATENT WEB INTERFACE

◊ Created a Proof of concept using NodeJS and new SQL JSON capabilities to navigate the patent database in a web browser. Developed a quick prototype of web interface to navigate patent information.

SENIOR SOFTWARE ENGINEER at *Paprec* **2019–2020**

PLASTIC RECYCLING PLANTS TRACEABILITY GRAPH

◊ I fixed a script to generate traceability graphs for six plastic recycling plants. I suggested rewriting the script, which was accepted, and I developed a more efficient and reliable version using advanced SQL features, resulting in scalable solution that produced up to 6 million rows.

FLEXIBLE HR DATABASE WITH TRACKING

◊ Design from scratch of a motivation and tracking database for HR. Due to integration of COVED, PAPREC needs a more flexible database design. Design of a test prototype to validate the structure. Integration of paid vacation trackers with a 3 year record.

ELT FOR MASSIVE GEOGRAPHIC DATA

◊ Paprec ESRI Geographic Data Hub. Development of a SQL+python ELT to transfer GBytes of data hosted by various providers such as Kizeo, Novacom, Simpliciti, Sigrenea for Paprec into a geographic database hosted on the corporate infrastructure.

EDUCATION

ENGINEERING DEGREE WITH MAJOR IN SOFTWARE AND ELECTRONICS
Ecole Centrale de Paris. **1992–1996**

PREPARATORY SCHOOL WITH FOCUS ON MATHS
Lycee Sainte Genevieve. **1990–1992**

HOBBY

BIKE TRIP AND CAMPING: PARIS TO BARCELONA, 8 DAYS ◊ I accompanied my son, riding 120 km daily, ensuring the trip ran smoothly within a budget of 10 euros per day.