



## Arnaud Daniel

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*For the sake of readability and conciseness, this CV highlights only the most relevant positions and assignments for your company. A full chronological version is available upon request.*

## Expert in innovative solutions design and development

- 30+ years of experience in software architecture, R&D, and full-cycle product development
- Strategic leadership across innovative projects in AI, blockchain, energy, and creative tech
- Proven ability to take a project from concept to market, both independently and with teams
- Dual expertise: deep technical know-how and product/market vision
- Successful collaborations with major clients (SNCF, Bombardier, RENFE) and startups

## General Skills & Know-How

- Requirements analysis
- Analysis of business needs
- Translating business requirements in solutions specifications
- Project management and MOE
- Specification drafting
- Writing test cases and developing test tools
- Organisation of workshops and training sessions
- Drafting training documents & training
- Startups leadership
- Design of innovative solutions
- Fast prototyping of solutions
- API design, documentation
- API implementation
- Coding in many languages and environments
- Expertise in mobile application
- Know how to work in international contexts
- Command of the customer relation and pre-sales support.

## Technical Skills

- **iOS Software Development Kit**
- **XCode**
- **Objective-C, Swift**
- **C/C++, Rust, Solidity, React/TS**, Java, Lua, R
- **Python**
- **Django**
- .NET, C#
- gnuplot
- Linux Debian
- GNU cross compiler
- JIRA
- Rabbit MQ
- USSD interfacing
- Location Base services
- **SOAP, REST**
- Java Midlet
- Java Servlet
- Eclipse
- **MySQL**
- **PostgreSQL**
- Symbian OS
- Audio & Video streaming
- SCRUM, IceScrum
- Bluetooth Stack

## Engineering degree

1993 Arts et Métiers, France.

Computational Fluid Dynamics

## Languages

French — Native

English — Bilingual

Russian — Fluent

## Hobby and interests

History, literature, photo and video, writing short stories and novels

## Solea-Innovation

April 2023 — to present

**Consultation services for startups and innovative companies:** improving their concepts, building rapid prototypes, assist in preparation for fundraising—through my partnership with the Monaco International Investment Forum.

**General consultation services:** Fractional CTO, Lead Developer, Team Lead — combining guidance from idea to working solution with hands-on coding and implementation.

**Active technological watch:** exploring new Web3 and AI use cases through hands-on prototyping, in order to stay at the forefront of emerging technologies and anticipate future needs

- Humanitarian Aid tracking system relying on IPFS and blockchain
- Design of a Crew Management Application (maritime transport), workflow and processes modeling
- Experimental digital proof system
- Experimental crypto lombard credit project
- Experimental photojournalism monetization project (NFT, SmartContract).

React/TS, Rust, IPFS, Swift/SwiftUI, REST, Kasper blockchain, IgraLab

## TTGTT

June 2014 — February 2023

**Mission CTO, Architecture, development, Change management**

**Mobile application for reducing energy consumption - Railway Transportation**

*TTGTT develops software solutions to optimize the operations of railway transport operators. For example, these solutions help SNCF save 10% in energy consumption.*

- Leading implementation of iPad solutions for SNCF, with direct involvement in development and integration.
- Leading implementation of the on-board solution in the Bombardier automatic driving system for RENFE, with direct involvement in development & integration.
- Workshop and training organization
- Analysis of field feedback and evolutionary maintenance
- Management and coordination of the teams and workgroups involved
- Solving problems of the solutions's staff acceptance
- XCode, ObjC/C++, Swift, C++ to Swift integration, GNU Cross Compiler, Debian, Eclipse, SOAP/Rest, .NET, Rabbit MQ, JIRA, Git

## Co-founder React.to

October 2012 — May 2014

**Concept design, Project Management, Software Engineering**

**Media, TV, « Second Screen » mobile application**

*Concept design of experimental "second screen" applications for interaction with TV translations of cultural and sport events (virtual performance halls and stadiums).*

- Acting CTO
- Design of innovative solutions
- Prototype implementation
- Refining the concepts with TV channels
- Perception analysis on a users' sample.
- XCode, ObjC, Python, Django, SOAP/Rest, JIRA

## Consultant Mobile Applications

January 2008 — January 2014

**Finance/Bank, Telecommunication, Transport, Mobile Marketing, Media**

*As a consultant, I have supported numerous projects, from pre-sales to the deployment on the store. The applications were created alone or with the support of a small team of developers.*

- Finance/Banque: **S-Money (BPCE), Prisma-Presse**
- Telecommunication: **Orange, Miowa**
- Media/Press: **Agence France Presse, KulturaTV**
- Transport: **Senda, Air France**
- Marketing mobile: **E. Leclerc, Tassimo, Nestle**

- Concept creation, innovation
- Product design and architecture
- Pre-sales support
- Customer requirements collection
- Budget estimate
- Specification & documentation drafting
- Project management & development
- XCode, ObjC, JSON, SOAP, REST, Python, MySQL, PostgreSQL

## DataArt

### Project Management & Business Development

Jan 2006 — Jan 2008

#### Business development

*Initiator of DataArt's operations in the mobile applications sector, development of DataArt's activities in France.*

#### Concept design and development of mobile services

*Mobile application projects for video sharing (Dailymotion, SFR), music sharing (Playtime), Email on mobiles (Bouygues), etc.*

- Project management
- Remote team management
- Software development
- Delivery and test management
- Pre-sales support
- Budget estimates
- Drafting specifications and test procedures
- Android, Protégé, OpenMap, JBoss Drools, Java Midlet (J2ME), Eclipse, Audio & Video streaming, Design and implementation of communication protocols

## Co-founder Evigilo-Technologies

September 2003 — January 2006

### Design of innovative mobile services and project management

#### Creation of a new concept: Enhanced Awareness Mobile Application

*As part of this startup that I co-founded, I defined a new concept of application using mobile telephony to provide users with information on the risks surrounding them. The applications were intended for small yachts, motorists and cyclists.*

- Analysis of project phases and risks and technical feasibility
- Drafting specifications
- Budget evaluation
- Creation of prototypes, project management
- Participation to the market analysis
- Relationship with the academic world, participation to scientific congresses
- Plateforme Gemplus .SIM, framework m-network, .NET, C/C++, Python, Zope, Symbian OS, Java J2ME

## Freelance consultant

September 1998 — September 2003

### Prototype of a solution for guiding blind people using mobile phones and Bluetooth

*Developed the prototype of a guiding system for the Paris Metro system. Using bluetooth chips to locate the user, it was providing audio advice to the user*

#### Project for a multimedia content distribution system to mobile phones over Bluetooth

*Developed for Apple Expo Paris 2002, this application identified the Bluetooth servers installed on the booths in order to deliver contextual content to the visitors' phones. Developed on SymbianOS.*

#### WAP mobile application server

*For the first French startup in the field of mobility, I designed a WAP application server which compensated for the weaknesses of the technology and of the first connected mobiles. Using the API published by this application server, we then developed the first mobile email client in Europe.*