

## Contact:

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- 🌐 [ad2ien](https://ad2ien.io)
- 🌐 [ad2ien.github.io](https://ad2ien.github.io)

- 40 years old
- Near Toulouse (FR)

## Languages :

- ✓ French (native)
- ✓ English (fluent)
- ✓ Spanish (fluent)

## Development :

- ✓ Java, Kotlin
- ✓ Golang, Rust
- ✓ Python, Nodejs
- ✓ Bash, Makefile
- ✓ C, C++, C#,
- ✓ Typescript, Javascript
- ✓ React Angular
- ✓ SQL : Mysql, Postgres..

## Systems :

- ✓ Docker, Kubernetes
- ✓ Linux Debian, Ubuntu
- ✓ Windows NT → 10, & servers

## Methodologies :

- ✓ Git flow
- ✓ Scrum master
- ✓ UML,
- ✓ BDD (TDD, DDD)

## Frameworks:

- ✓ Grafana / Prometheus
- ✓ Elastic stack
- ✓ Github workflows
- ✓ GraphQL
- ✓ Maven, Gradle
- ✓ Spring, Springboot
- ✓ Jhipster
- ✓ JPA, Hibernate
- ✓ .Net

# Adrien Touzouli

Full stack engineer



## In a nutshell

*I am a full stack developer with backend affinities and agile management, devops and continuous integration skills.*

*I'm in my early forties and based in the south west of France near Toulouse but I'm always up for a trip from time to time.*

*I'm available for your web projects, especially if it involves open source coding 😊*

## Experiences

### 2023-2024 EIMIS - Beta.gouv (Remote)

EIMIS stands for Interoperability for instant messaging in the french healthcare sector, is a public start-up initiated by <https://beta.gouv.fr> and financed by [ANS](#) (french healthcare digital agency). This structure aims is to facilitate and secure instant communications for healthcare professionals in France, by using and promoting [\[Matrix\]](#) protocol among software editors.

- ✓ Community animation around Matrix protocol, and its implementation in the French healthcare ecosystem: demos, workshops, openlabs...
- ✓ Configuration and deployment of an [Element](#) / [Synapse](#) stack
- ✓ Python's tools and modules for Synapse

### Freelance Devops

- ✓ Python
- ✓ Github CI
- ✓ Terraform
- ✓ Ansible
- ✓ Kubernetes

### 2020-2023 OKP4 - Toulouse (FR)

OKP4 develops a layer one cosmos blockchain that aim to facilitate data exchange by rewarding the actors involved in knowledge creation by giving them a governance mechanisms. Alongside the development of this protocol, there's some gravitating projects related to data science, data sharing governance and BI in agriculture and logistics.

- ✓ Docker compose deployments
- ✓ Kubernetes manifests
- ✓ Tweak some Prometheus exporters in Go
- ✓ Github workflow to build, lint and publish various projects in Python, R, Go, Kotlin, React...
- ✓ Kibana plugin to display geometry polygons on a map
- ✓ Discord bot functionalities in Rust
- ✓ Github action to automatically follow contributors
- ✓ QGIS scripts
- ✓ Scripts that generate wallets and affect instantiated Stargaze NFTs

### Fullstack developer

- ✓ Github CI
- ✓ Docker
- ✓ Kubernetes
- ✓ Cosmos Blockchain
- ✓ Traefik
- ✓ Grafana
- ✓ Keycloak
- ✓ Opensearch
- ✓ Rust
- ✓ Go
- ✓ Kotlin

### 2022 RF Innovation - Toulouse (FR)

Process, display, data from farming sensors : weight, temperature, sound. AWS cloud architecture, website, monitoring, supervision.

- ✓ Manage AWS services : IOT core, SQS queues, lambda functions
- ✓ Web app Kotlin and Angular
- ✓ Micro service in Golang to process sound data sent by devices and feed a AWS bucket
- ✓ Grafana dashboards

### Freelance cloud architect

- ✓ AWS services
- ✓ Go service
- ✓ Kotlin / Jhipster
- ✓ Chartjs
- ✓ Springboot Angular

Tools:

- ✓ Github, Gitlab
- ✓ Git
- ✓ Keycloak
- ✓ JIRA
- ✓ Jenkins
- ✓ Docker
- ✓ QGIS

Devops :

- ✓ Kubernetes
- ✓ Ansible
- ✓ Terraform
- ✓ AWS
- ✓ OVH
- ✓ Docker compose

IDE :

- ✓ IntelliJ
- ✓ Visual studio code
- ✓ Eclipse

2020	RF Innovation - Toulouse (FR)	Freelance developer
	<p>Access turnstile with static electricity measurement for electronic component factory. Embedded development on Debian board.</p> <ul style="list-style-type: none"> <li>✓ Web server with JHipster (Springboot / Angular)</li> <li>✓ Python App</li> <li>✓ System installation process.</li> <li>✓ Access logger</li> <li>✓ Configure the hardware</li> <li>✓ Launch and validate measurements</li> </ul>	<ul style="list-style-type: none"> <li>✓ Jhipster framework</li> <li>✓ Springboot Angular</li> <li>✓ Python</li> <li>✓ Debian</li> </ul>
2018 - 2020	CLS - Ramonville (FR)	Ausy consultant
	<p>This mission, initially for Novacom, consisted of improving applications and data used for garbage collection.</p> <p>C# message processing chain receiving data from garbage collection truck. Visual Studio 2019.</p> <ul style="list-style-type: none"> <li>✓ Redesign to make it scalable.</li> <li>✓ Unit an integration test setup</li> <li>✓ Continuous integration continue with Gitlab CI.</li> <li>✓ Performance and non-regression tools</li> <li>✓ Deployment tool with Javafx, Kotlin Maven.</li> </ul>	<ul style="list-style-type: none"> <li>✓ C# C++, Gitlab CI, Kotlin</li> <li>✓ Visual Studio 2019, IntelliJ</li> <li>✓ Javafx et WPF</li> </ul>
2017 - 2018	Air France - Toulouse (FR)	Astek consultant
	<p>This mission is mainly related to the management of documentation embedded in Air France aircrafts.</p> <p><u>ACDC Projet</u></p> <p>Solution to monitor EFB (Electronic Flight Bag: aircraft embedded tablet) • Springboot backend • Angular frontend • EFB embedded software in Nodejs • Everything communicating with websocket • CI (continuous integration) configuration with Bamboo and Nexus</p> <p><u>LoaderBoard Projet</u></p> <p>Loaders are windows 7 PC laptops used to update documents and tools of embedded EFBs. Loaderboard is a PC application to manage a fleet of loaders. Electron framework allowing to access system PC libraries using Angular 4. PO (product owner) and developer.</p> <p><u>ACARSWEB Projet</u></p> <p>This project is an interface with ACARS messages (message format use to communicate with aircrafts) it allows to exploit flight data. • Java agent that parse and compile ACARS messages and send a report to a fuel consumption tool. • Interface avec KLM (Netherland) • Real TDD Development! (Test Driven Development.)</p> <p><u>AMPHORE Projet</u></p> <p>EFB Document management system for various aircraft types. Consists of a web application, java agents and Loaders. • Development • Redesigns following DDD Domain Driven Design paradigm. • Improvement and performance studies. • C# Scripts for the loaders.</p>	<ul style="list-style-type: none"> <li>✓ Java J2E, Maven, Spring, Hibernate Junit</li> <li>✓ Sprinboot Angular 6</li> <li>✓ Altassian Suite : Bamboo Bitbucket Nexus</li> <li>✓ DDD, TDD</li> <li>✓ Electron</li> </ul>
2016 -2017	Ministry of agriculture - Auzeville (FR)	Astek consultant
	<p>Development from scratch of a web application helping state employees to instruct files regarding the management of private forests.</p> <ul style="list-style-type: none"> <li>✓ Agile team and project setup: 3 product owners 4 developers.</li> <li>✓ Development with Orion framework which is an overlayer of Spring.</li> <li>✓ Development of java agents to recover data from a third-party organism. Management of the interface: XSD format.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Eclipse</li> <li>✓ Tomcat, Glassfish</li> <li>✓ Xsd, xml, jaxB</li> <li>✓ Server linux, application JMX</li> <li>✓ Agents Camel</li> </ul>

**Fin 2015 Thales Avionics - Toulouse (FR)****Astek consultant**

Embedded Tablet for Sukhoi planes allowing document reading, maintenance configuration and monitoring of various connected equipment.

- ✓ Sniffer A429
- ✓ Java swing

- ✓ Analyze and characterization of an A429 driver used for data transfer between embedded modules. Performance optimization for a java application using this driver.
- ✓ Test protocol setup.
- ✓ Coding of a loopback in java and C++.
- ✓ Report stating different actions to be taken to improve system performances.
- ✓ Then corrections and evolutions on this java swing application.

**2015 Intel - Toulouse (FR)****Astek consultant**

Contractor team Scrum Master for Intel. Business Intelligence BI team of 6 developers in charge of generating reports about maturity of various Android projects.

First with SSRS (SQL Server Reporting Service) then taking care of a C# backend. Manage team backlog and reporting. Develop and correct SSRS reports. Weekly production deployment on Sharepoint servers. Development of C# workers to extract transform and store data needed for reports. Automation of alert mails, data consolidation.

- ✓ Scrum master
- ✓ C#, TFS
- ✓ Clients lourd en WPF
- NoSql : Mongo DB*

**2013-2014 Gaxu Soluciones - Santiago (Chile)****Developer**

Development of a biometric SDK allowing clients to implement ID verification systems with fingerprints and both old and new versions of the Chilean ID card.

Development Android and Windows SDK (Java and C# .NET framework).

Integration of Match-On-Card (Managing various versions of fingerprint minutiae and NFC communication) System integration with applet java, ActiveX, IIS servers, C# web services, and SQL data base.

- ✓ *Applications Android*
- ✓ *Match-On-Card*
- ✓ *lecteurs NFC, QR code, code barre.*
- ✓ *Lecteurs d'empreintes digitales*

**2010 -2012 Neopost - Bagneux (91, FR)****ALTEN consultant**

Embedded C++ developer for a franking machine Manufacturer.

- ✓ Debug and evolution of an embedded C++ software (ARM, Windows CE).
- ✓ Tools and scripts writing to improve R&D productivity (python, php).
- ✓ Unit tests and integration tests.

- ✓ *C++ embarqué*
- ✓ *Gestion agile SCRUM*
- ✓ *Synchronisation avec une équipe offshore*
- ✓ *Tests unitaires et d'intégration*

Team: 4 to 7 developers in France and 11 developers in Vietnam.  
Technical leader:

- ✓ Technical referent.
- ✓ Offshore team management.
- ✓ Daily meeting leader.

Team leader assistant:

- ✓ Project Scheduling
- ✓ Reporting
- ✓ Scrum master

Client site responsible: communication between contractors working on the client site (12 to 15 people) and the headquarters of Alten SA.

**2008 - 2009 Philog - Paris****IT Engineer**

SageX Project (permanent assignment) In charge of supporting an IP and X25 network supervision product.

- ✓ Driver Windows WDK
- ✓ C

- ✓ Technical support: on-line issues solving.
- ✓ Repairing and configuring IP/X25 gateways.

WHQL tests: Passing Microsoft test certificate on DTM Studio.

Driver design and development in C, C++ with DDK:

- ✓ Private Partition Project: Design of a system to allow the use of a hard disk part as an independent hard disk displayable or not.
- ✓ File Recovery Project: Design and programming algorithms improvement to recover deleted files in FAT and NTFS.
- ✓ Drive PDF Project: Virtual PDF printer based on Windows postscript printer driver describe in the DDK, and GohstScript. Installation made with Installshield.
- ✓ Video acquisition Driver. WDM (Windows Driver Model) Architecture from WDK. Layer used by a library to fill buffer with data in isochronous mode.
- ✓ Printer Port Monitor: Both USB and Serial Printer, the Port monitor, check for a printer and display an interface to allow a user to configure the port. Status feedback to inform Windows printer spooler.

## Other experiences

<b>Agriculture</b>	Member of an association that tries to develop a sector for an old variety of corn in the Gers, south-west of France.  Production, processing and sale of polenta, bulgur and corn flour.
<b>Beer brewing</b>	Beer brewing workshop animation for Brens INEPOLE (81) training center in agriculture.
<b>Music</b>	Concerts, PA, recording and mixing
<b>Escalade</b>	SAE initiator: Artificial Site Climbing in Auzeville (31 France) Certificate issued by the French climbing federation.
<b>First aid</b>	First aid with the Protection Civile de Paris in 2011.

## Training

<b>2017</b>	Degree in Analysis and management of agricultural holding systems
<b>2007</b>	Master of Science from Cranfield University in signal and image processing
<b>2007</b>	Engineer degree from ESTIA in automatized process