



**We explore your future**



### ***Who we are***

Experienced team including engineers, researchers, and mathematicians (2 PhD, 1 MSc, 6 BSc).

### ***What we do***

Custom software design & development

Research & Development in data analytics and computer science with academic background

Development sites in Romania and Hungary

International client portfolio





### **Competences**

Web, mobile and desktop applications

Back end, microservices and API design, cloud, containerization, multiplatform

SQL and NoSQL, state-of-the-art programming languages, platforms, frameworks

DevOps approach

### **Distinguished domains**

Translation technology (CAT, Business Management Systems, workflows and integrations)

ERP systems, BMS and Enterprise System integrations

Industrial automation, renewable energy industry, optimization of maintenance, embedded systems





### ***Our role in the project***

Complete software architecture design and development. Cloud native Azure back end, ReactJS based web frontend, Kotlin mobile and Unity based augmented reality.

### ***About the project***

ARBIRA is an augmented-reality-based presentation platform providing visualization services for system integrators and offline robot programming software vendors.

The tablet application allows augmenting the actual factory floor with the virtual image of the planned equipment, while our web application allows managing these concepts and facilitates efficient feedback mechanisms.

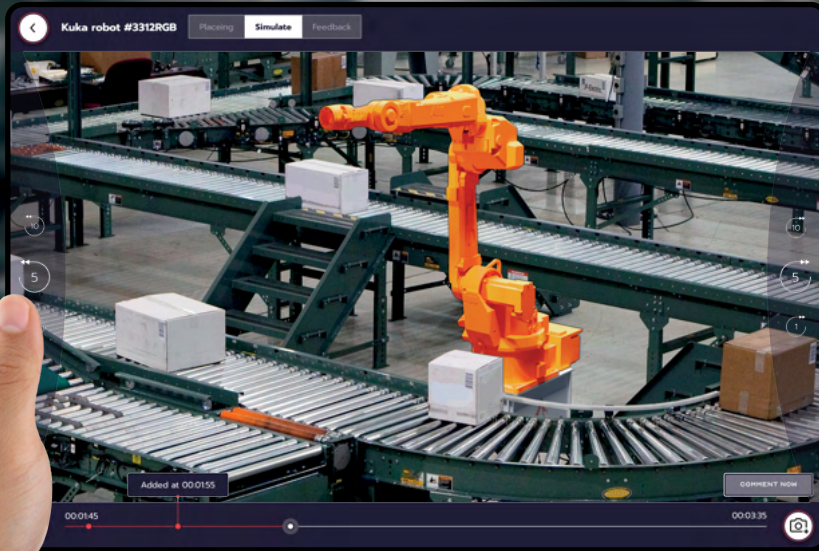
We collaborate with OLRP vendors in order to bring their offline simulations into the real world. Extending the presentation capabilities of any OLRP this way improves their customer experience significantly.



2018 - ongoing



**ARBIRA**





## ***Our role in the project***

Complementing an existing system and taking over the design responsibilities. Implementation of a patent pending cryptographic certification and related services. Azure based back end, ReactJS frontend.

## ***About the project***

Cryptar generates chained verification hashes, publishable in multiple mutually trusted locations to serve as independent data validation anchor for recipients.

Securing data through a blockchain anchor hash is not new but used to pose a major blocker for organizations. Not only is it hard for multiple organizations to agree on a single evolving technology but data must not be indefinitely valid while expiry dates create windows of opportunity for attackers. E-Certificates specifically must be revokable to fulfil official standards.

Cryptar overcomes this with a patent pending process, allowing E-Certificates to be mathematically verifiably withdrawn. Thereby certifiers establish legal proof of revocation while leaked or outdated data cannot claim validity.



2021 - ongoing



```

41
42 @classmethod
43 def from_settings(cls, settings):
44     debug = settings.getbool("SUPERFUTUR_JOB")
45     return cls(job_dir(settings), debug)
46
47 def request_seen(self, request):
48     if request.fingerprint(request)

```

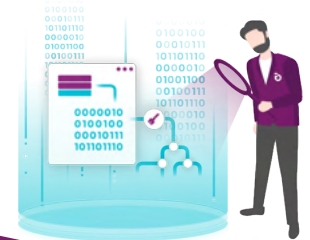


## Cryptar Microservice Architecture

Florian Weigand Contributors: Bordi Tamas, Sándor Kolumbán, Tim Schojohann

Last Updated: 4/22/23 at 1:59 pm

Subpages	Owner	Contributors
Anchoring Microservice		
JSON2Hash Microservice		
Word2PDF Microservice		
Validate Page		
FAQs		





### ***Our role in the project***

Extracting translatable content from various file formats (filtering). Design, implementation and maintenance of the filter framework and various other areas.

### ***About the project***

Our company was founded in connection to our most significant project: our team started developing memoQ, an integrated translation environment for a startup, called Kilgray, in 2007. We have been actively developing the product line with Kilgray ever since. memoQ consists of desktop, server back-end, and web components, helping translation agencies to manage translation projects, organizing teamwork in projects, and enhance the productivity of linguists with the help of text editing, language processing and quality assurance functionalities. The software is among the most prominent translation support systems today.



2007 - ongoing





memoQ - Training 1.23

Project home Demo 1.docx

Source	Target	Progress	Quality	Translation results
2. This is a short new sentence.	Dies ist ein kurzer, neuer Satz.	73%	✓	This is a short nice sentence. Dies ist ein kurzer, netter Satz.
3. This is a short nice sentence.	Dies ist ein kurzer, netter Satz.	70%	✓	This is a short new sentence. Dies ist ein kurzer, neuer Satz.
4. This is a new sentence.	Dies ist ein neuer Satz.	0%	✓	This is a new sentence. Dies ist ein neuer Satz.
5. Sentence 5 is similar to the next sentence.	Satz 5 ist ähnlich zum nächsten Satz.	0%	✓	This is a sentence with a line-break. Dies ist ein Satz mit einer Zeilenschaltung.
6. Sentence 6 is similar to the previous sentence.	Satz 7 ist ähnlich zum vorherigen Satz.	75%	✓	This is a sentence with a line-break. Dies ist ein Satz mit einer Zeilenschaltung.
7. This is a sentence with a line-break.	Dies ist ein Satz mit einer Zeilenschaltung.	0%	✓	This is a sentence. Dies ist ein neuer Satz.
8. New sentence.	Dies ist ein neuer Satz.	0%	✓	This is a sentence. Dies ist ein neuer Satz.
9. Next sentence.		0%	✓	This is a sentence. Dies ist ein neuer Satz.
10. Several sentences already contained the fragment „This is a“.		0%	✓	This is a sentence. Dies ist ein neuer Satz.

View pane

Dies ist ein neuer Satz. Dies ist ein kurzer, neuer Satz. Dies ist ein kurzer, netter Satz. Dies ist ein neuer Satz.

Satz 5 ist ähnlich zum nächsten Satz. Satz 7 ist ähnlich zum vorherigen Satz.

Dies ist ein Satz mit einer Zeilenschaltung.

Dies ist ein neuer Satz. Next sentence.

Several sentences already contained the fragment „This is a“.

Created: 12.02.2019 17:12:59 (angelkoefer@shand)  
Doc: Demo 1.docx



### ***Our role in the project***

Design and implementation of the app. Azure based back end, Xamarin based cross platform mobile application and ERP integration.

### ***About the project***

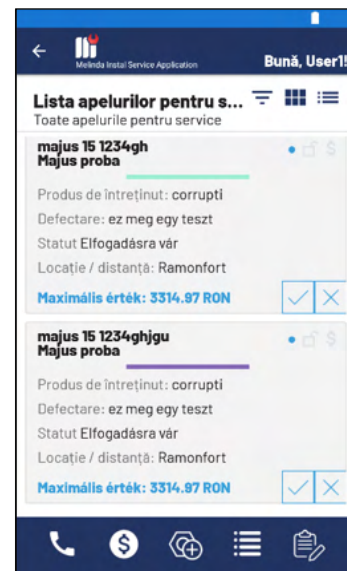
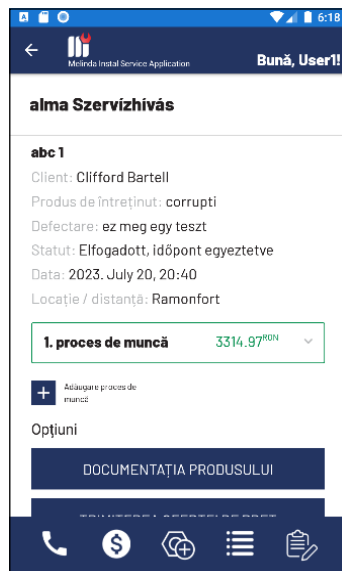
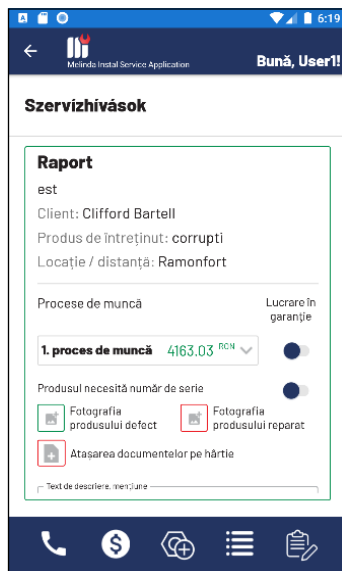
MISA, the Melinda Instal Service Application is a mobile app used to facilitate communication between repairman and the back office.

It handles the whole repair process related to the servicing of installations from the assignment of the service ticket to a repairman to the handling of warranty related claims, including billing and handling of the bonus system for repairman.

The back end of the application is fully integrated with the company ERP, facilitating complete information consistency.



2020 - ongoing



### ***Our role in the project***

We brought data analysis and numeric algorithms related skills to the table. The delivered results were based on collaborative filtering algorithms using low rank matrix completion techniques.

### ***About the project***

The client is distributing magazines between various locations. Each location has a certain set of magazines that they sell. From the quantity of a magazine shipped to a location a certain percentage can be returned without cost.

The first goal was to provide an automated system that can recommend new magazines for locations to sell. Since the number of copies from each issue is fixed for the distributore, the new recommendations need to be secured by reducing delivery to other locations.

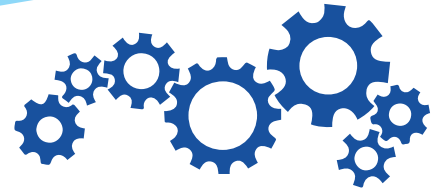
The second goal was to provide a method to determine on which locations can delivered quantities be reduced in order secure copies for the newly recommended locations. All this in such a way that sales at old locations are affected as little as possible.



2023









### *Reach out to us*



info@explorer-consulting.ro



+40 747 877 988



535600 Odorheiu Secuiesc, str. Il Rákóczi Ferenc, nr. 80., jud. Harghita



[www.facebook.com/ExplorerConsultingUdvarhely](http://www.facebook.com/ExplorerConsultingUdvarhely)



[www.linkedin.com/in/sándor-kolumbán-8aa97713b](http://www.linkedin.com/in/sándor-kolumbán-8aa97713b)



[www.linkedin.com/company/explorer-consulting-ro/about](http://www.linkedin.com/company/explorer-consulting-ro/about)

If you want to know more about us, our projects, or request the contact information of our customers please contact us.





**We explore your future**