

# CHRISTOS LYTRAS

## PORTFOLIO

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[in linkedin.lytras.io](https://www.linkedin.com/in/lytras) | [stackoverflow.lytras.io](https://stackoverflow.com/lytras) | [github.lytras.io](https://github.com/lytras) | [lytras.io](https://lytras.io)

CURRICULUM VITAE [cv.lytras.io/cv](https://cv.lytras.io/cv)

### Mr. Pengu Mobile App

TYPE Mobile App / Admin Panel | SOURCE Proprietary | PERIOD May '19 - Nov. '19

LIBRARY SOURCE [github.com/clytras/LyxLib](https://github.com/clytras/LyxLib)



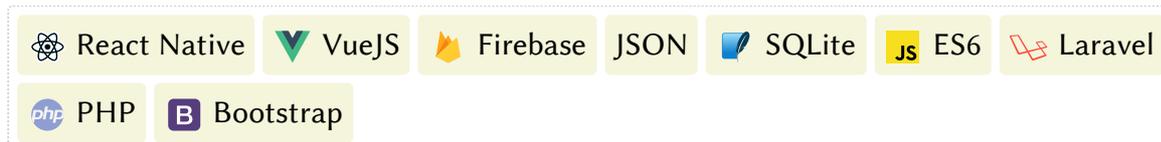
Mr. Pengu is a real-time delivery platform that users can use to order whatever they want regarding retail items and goods. It was a big challenge for me because it connects users with operators and drivers all in real-time. It has 3 applications and a backend that connects all; one mobile app for the clients that orders initiate, one web app for operators to assign and control the orders and one mobile app for drivers that take and execute the orders. We decided to built it with *Firebase Firestore* and *Firebase Functions* mostly because of it's real-time capabilities, stability and scalability. Even though I cannot provide the full proprietary source code, I include a Github repo with the outdated RN source code.

### Forum SA - Exhibitions Mobile Apps

TYPE Mobile App / Admin App | SOURCE Proprietary | PERIOD Aug. '18 - Mar. '19

LIBRARY SOURCE [github.com/clytras/LyxLib](https://github.com/clytras/LyxLib)

GOOGLE PLAY [Horeca](#) | APP STORE [Horeca](#) | GOOGLE PLAY [FoodExpo](#) | APP STORE [FoodExpo](#)



Forum S.A. is the organizer company of some of the biggest exhibitions in Greece. I designed and created their mobile apps for the '18 - '19 season. It was one base application with common characteristics for 4 exhibitions, [Xenia '18](#), [Horeca '19](#), [Artoza '19](#) and [FoodExpo '19](#). We've had built it using *React Native* and *Firebase Firestore* for data availability and real-time data updates. We've also built a control panel using *Laravel* and *VueJS* for app related tasks and sending notifications.

## Posidonia Exhibition Mobile App

TYPE Mobile App | SOURCE Proprietary | PERIOD Nov. '19 - May - '20

LIBRARY SOURCE [github.com/clytras/LyxLib](https://github.com/clytras/LyxLib)

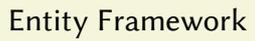
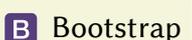
 React Native  Firebase  JSON  SQLite  JS ES6

**Posidonia** international shipping exhibition is one of the biggest events of the international shipping industry. We designed and created the mobile application for the year 2020. We've used *Firebase Firestore* and *Firebase Storage* for the app data. The app is not published yet because of the exhibition dates change due to 2020 COVID pandemic.

## IMET B2B Web Platform

TYPE Web App | SOURCE Proprietary | PERIOD Mar. '20 - May. '20

ONLINE [b2bplatform.imet.gr](https://b2bplatform.imet.gr)

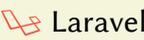
 React  JS ES6  C#  .NET Core  ASP.NET  SQL Server  Entity Framework  
 EF Core  JSON  Bootstrap

A B2B connection platform made for [Hellenic Institute of Transport \(HIT\)](#). It is a *.NET Core React SPA* created entirely using **dotnet** CLI and *Visual Studio Code*. I've used *Entity Framework* ORM with *SQL Server* and *ASP.NET Core Identity* for authentication. It also utilizes [Github Webhooks](#) to perform application updates on specific commit tags.

## Access DB Converter

TYPE Console App | SOURCE [github.com/clytras/AccessConverter](https://github.com/clytras/AccessConverter) | PERIOD Jun. '17

ONLINE [lytrax.io/blog/tools/access-converter](https://lytrax.io/blog/tools/access-converter)

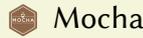
 Java  JSON  SQLite  MySQL / MariaDB  Laravel  PHP

Microsoft Access database conversion tool to convert old and new Access database formats to *JSON*, *SQLite* and *MySQL* dump files. It is written in *Java* and it's built with [Jackess](#), a Java library for reading and writing *MS Access Jet* databases. I have also created an online conversion tool that uses this Java CLI tool and I've intergraded into my blog using *Laravel* and *PHP*.

## EveryPay REST API ES6 Bindings

TYPE NPM Package | SOURCE [github.com/clytras/everypay](https://github.com/clytras/everypay) | PERIOD Jul. '19

NPM [@lytrax/everypay](https://www.npmjs.com/package/@lytrax/everypay)

 ES6  Mocha  npm

**EveryPay** is one of the biggest, advanced and "developers friendly" payment gateways in Greece. When developing the *Mr. Pengu* mobile app in *React Native*, we had to use **EveryPay** REST API for connecting the payments. The lack of *JavaScript* bindings led me to create *ES6* bindings for the gateway REST API. I've also created a *NPM* package so to have an easy installation and version monitoring process and of course for other people to be able to use it. It is also covered by full test cases and scenarios using *Mocha JavaScript* test framework.

## Greek TIN Validation/Generation Libraries

TYPE Multi-language libraries | PERIOD Jan. '20

BLOG [lytrax.io/blog/projects/greek-tin-validator-generator](https://lytrax.io/blog/projects/greek-tin-validator-generator)

SOURCE JAVA [github.com/clytras/afm-java](https://github.com/clytras/afm-java) | MAVEN [io.lytrax/lytrax-afm](https://io.lytrax/lytrax-afm)

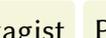
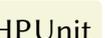
SOURCE ES [github.com/clytras/afm-es](https://github.com/clytras/afm-es) | NPM [@lytrax/afm](https://www.npmjs.com/package/@lytrax/afm)

SOURCE PHP [github.com/clytras/afm-php](https://github.com/clytras/afm-php) | PACKAGIST [lytrax/afm](https://packagist.org/packages/lytrax/afm)

SOURCE PYTHON [github.com/clytras/afm-python](https://github.com/clytras/afm-python) | PYPI [lytrax-afm](https://pypi.org/project/lytrax-afm)

SOURCE .NET [github.com/clytras/afm-dotnet](https://github.com/clytras/afm-dotnet) | NUGET [Lytrax.AFM](https://www.nuget.org/packages/Lytrax.AFM)

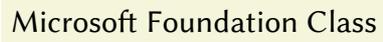
 ES6  npm  Jest  Java  Maven Central  JUnit  C#  .NET Core

 NuGet  PHP  Packagist  PHPUnit  Python  PyPi

Greek *Tax Identification Number (T.I.N.)* libraries for validation and generation. I faced a situation where I needed to create some tests and mocking objects for validation data including Greek TIN numbers. The lack of related resources led me to create these simple yet valuable libraries to accomplish this task. My need was for *Java*, but I converted the algorithms to *PHP*, *Python*, *JavaScript* and *.NET Core (C#)* as also creating and publishing each library to it's corresponding package manager repository. All Github repositories have extended test suits using *Jest*, *JUnit*, *PHPUnit* or intergraded test units.

## Bineye Integer Analyzer

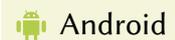
TYPE Windows Utility | SOURCE [github.com/clytras/Bineye](https://github.com/clytras/Bineye) | BLOG [lytrax.io/blog/bineye](https://lytrax.io/blog/bineye)  
FREWARE [Bineye @ Softpedia](#) | FREWARE [wiznet-bineye.win7dwnld.com](https://wiznet-bineye.win7dwnld.com)

 C++  Microsoft Foundation Class  Windows API

A simple utility that I've started creating it at my first coding steps with Visual Basic. It analyzes 32bit little endian integers to sub-integers providing LO/HI words and bytes. It converts each integer block to the corresponding base formats for hexadecimal, octal and binary. It also translates and analyzes 32bit colors RGBA values that can be altered using GUI controls. [Softpedia](#) listed it up as a freeware when I released it to the public back in 2014. The final version is built using *VC++* with *MFC* and *Win32 API*.

## MAG24.GR App

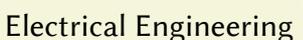
TYPE Mobile App | SOURCE [github.com/clytras/MAG24-Android-App](https://github.com/clytras/MAG24-Android-App)

 Java  Android  JSON  PHP

An *Android* application built for [MAG24](#) online magazine. I've built the frontend using *Eclipse*, *Java* and *Android* libraries. The application would fetch data from the *Joomla* backend when online so I've had to create a *Joomla PHP* component to fetch and transfer all data of the site using *JSON* data formats.

## Ultraviolet Scanner DIY Project

TYPE DIY Project | SOURCE [github.com/clytras/CL\\_UVScanner](https://github.com/clytras/CL_UVScanner)  
BLOG [lytrax.io/blog/projects/diy-uv-exposure-box](https://lytrax.io/blog/projects/diy-uv-exposure-box) | YOUTUBE [youtu.be/ZAlxNNI-BVM](https://youtu.be/ZAlxNNI-BVM)

 C++  Arduino  Electrical Engineering  Microcontroller

A DIY project for creating an Ultraviolet Scanner, a device that is being used to bake printed circuits on photoresist dry film. The project is build on *ATmega328P* microcontroller that powers ultraviolet LED strips using a N-Channel MOSFET. The software involves time settings, timers and countdowns and it's written entirely in *C++*.