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CURRICULUM VITAE cv.lytrax.io/cv

Mr. Pengu Mobile App

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

LIBRARY SOURCE github.com/clytras/LyxLib










 React  React Native  Firebase  JSON  SQLite  MySQL / MariaDB
 ES6  Laravel  PHP  Docker  Material UI

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 Even though I cannot provide the full proprietary source code, I include a Github repo with the outdated RN source code.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

 React Native  VueJS  Firebase  JSON  SQLite  ES6  Laravel  PHP
 Bootstrap

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

 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.

LytraX Bot Search (LyxBoSa)







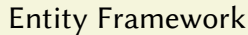



TYPE Security CLI Utility | SOURCE Open Source | PERIOD Feb. '26
LIBRARY SOURCE github.com/LytraX/lyxbosa

 C++  YAML

LyxBoSa is a high-performance malware and webshell detection scanner written in C++20. It recursively scans files and directories for malicious code patterns using a multi-strategy matching engine that combines string, regex (RE2), hex, entropy, hash, and heuristic analysis. With built-in detection rules spanning backdoors, credential theft, code execution, obfuscation, phishing, and more, LyxBoSa is designed to identify compromised websites and server-side threats commonly found in CMS platforms. It supports YAML-based configuration, custom rule definitions, multiple report formats (Text, JSON, CSV), and actions such as quarantine and email alerts.

IMET B2B Web Platform







TYPE Web App | SOURCE Proprietary | PERIOD Mar. '20 - May. '20
ONLINE 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 | PERIOD Jun. '17
ONLINE 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


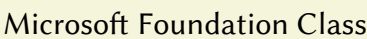

TYPE NPM Package | SOURCE github.com/clytras/everypay | PERIOD Jul. '19
NPM [@lytrax/everypay](https://www.npmjs.com/package/@lytrax/everypay)

 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.

Bineye Integer Analyzer

TYPE Web/Native Utility | WEB bineye.lytrax.io/ | SOURCE github.com/clytras/Bineye |
BLOG lytrax.io/blog/projects/bineye-next
FREEWARE [Bineye @ Softpedia](#) | FREEWARE wiznet-bineye.win7dwntd.com

 C++  Microsoft Foundation Class  Windows API

BinEye is an interactive numeric and color analysis suite, designed to visualize how data is represented at the bit level and beyond.

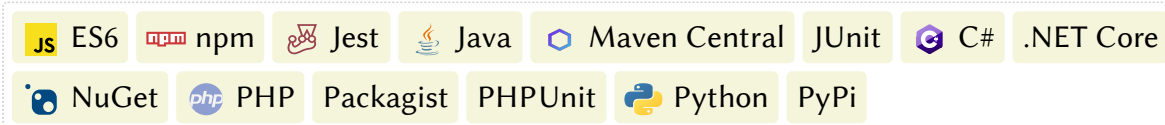
It helps developers, engineers, graphics enthusiasts, and reverse engineers understand how integer and floating-point values map to bytes, words, and RGBA color channels — and now even much larger integer sizes.

With its modular "Words" tool, you can inspect integers from 32-bit up to 1024-bit, view low/high words, binary and hexadecimal representations, and instantly convert between multiple bases and formats — all in a synchronized, precise layout.

BinEye runs on Windows, macOS, Linux, and can also be used directly in the browser.

Greek TIN Validation/Generation Libraries

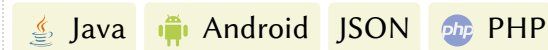
TYPE Multi-language libraries | PERIOD Jan. '20
BLOG lytrax.io/blog/projects/greek-tin-validator-generator
SOURCE JAVA github.com/clytras/afm-java | MAVEN io.lytrax/lytrax-afm
SOURCE ES github.com/clytras/afm-es | NPM @lytrax/afm
SOURCE PHP github.com/clytras/afm-php | PACKAGIST lytrax/afm
SOURCE PYTHON github.com/clytras/afm-python | PYPI lytrax-afm
SOURCE .NET github.com/clytras/afm-dotnet | NUGET Lytrax.AFM



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.

MAG24.GR App

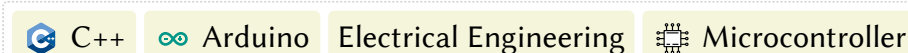
TYPE Mobile App | SOURCE github.com/clytras/MAG24-Android-App



An *Android* application built for [MAG24](https://mag24.gr) 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
BLOG lytrax.io/blog/projects/diy-uv-exposure-box | YOUTUBE youtu.be/ZAlxNNI-BVM



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++*.