

# Igor Zarvanskiy

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## Summary of qualification

Languages Java, PHP, python  
Databases MySQL, MongoDB  
VCS Mercurial, Git  
Dev. tools IntelliJ IDEA, PyCharm, PHPStorm, Eclipse, Sublime Text  
OS Linux, Windows

## Education

- 2013–2015 **PhD Student**, *National Technical University of Ukraine “Kyiv Polytechnic Institute”*, Educational-scientific complex “Institute for applied system analysis”, Department of mathematical methods of system analysis, Diploma thesis: Analysis of numerical series using graphs visibility methods to predict heart disease.
- 2011–2013 **Masters of Applied mathematics**, *National Technical University of Ukraine “Kyiv Polytechnic Institute”*, Department of applied mathematics, Diploma thesis: Model of complex web-networks with second-order phase transition.
- 08.2012 **European Summer School in Industrial Mathematics and Modelling**, *Technische Universität Dresden*.
- 2007–2011 **Bachelor of Applied mathematics**, *National Technical University of Ukraine “Kyiv Polytechnic Institute”*, Department of applied mathematics, Diploma thesis: Distributed expert-analytical system of POS sales and service.

## Experience

### Vocational

- 2015–Present **Java/Hybris Developer**, SKYWIND/PLAYTECH, Kiev.  
Develop and support e-commerce project.
- 2013–Present **Python/PHP Developer**, JAYADIGITAL, Kiev.  
Dynamic web application programming and HTML coding using Symfony2 as framework.
- 2009–2014 **Web Developer**, *Freelance*, Kiev.  
Dynamic web site design and programming using CMS “Drupal”.

### Miscellaneous

- 2011–2013 **Director/Founder**, *Kraftman Ukraine*, Kiev.  
Managing director of printing equipment distribution company.

2007–2013 **System Administrator**, *Vogt Medical Vertrieb GMBH*, Kiev.  
Provide Windows/Linux administration, network operating center administration, LAN/WAN/VPN administration, intrusion detection and prevention monitoring. Also manage FTP servers, AD/DNS, wireless access points and load balancers. Design and implement highly available and disaster recovery solutions.

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## Projects

2015–2016 **Keymaster**.

Description: web application for managing markers on map.

Responsibilities: app full development, django, leaflet.js, angular

07.2014– **CryptoCash**.

2015 Description: Web App for electronic money exchange.

Responsibilities: Symfony2 framework - defeloping multi-module system for electronic money exchange. Developed modules: APIBundle - integration Symfony2 framework with WebMoney, YandexMoney, Qiwi, PerfectMoney, Blockchain(Bitcoin), Privat24, OkPay, EgoPay; ExchangeProcessBundle - module responsible for exchange process workflow, LogBundle - module for logging based on events(Observer pattern). Designing and implementing server infrastructure on AWS. Process json and xml data.

Site: <https://cryptocash.co/>

08.2013– **KPS**.

Present Description: Set of script for analizing cardiogram and make prediction about disease.

Responsibilities: app full development, using cprofile to profile and icrease speed of app, process data in gpickle, xls, txt, math backgroud.

Libraries: networkx, matplotlib

06.2014– **Yaka**.

07.2014 Description: Corporate site for cosmetics distribution.

Responsibilities: Drupal 7 full app developing.

Site: <http://yaka.kiev.ua/>

05.2014– **Tryton ERP research**.

07.2014 Description: Research workflow of Tryton ERP-system. Responsibilities: research and documenting internal API of tryton.

Publications: <http://habrahabr.ru/post/222121>

03.2014– **Map generator**.

05.2014 Description: Script for generating random maps for iOS game (main idea of game - pathfinding).

Responsibilities: app full development, process data in plist format, math backgroud.

Libraries: networkx, matplotlib, PIL

Source: <https://bitbucket.org/clutcher/cng>

12.2013– **AllUkraine**.

04.2014 Description: Tourist catalog of Ukraine sightseeing.

Responsibilities: Yii 1.1.14 framework - php views coding.

- 10.2013– **Ailant.**  
 12.2013 Description: Hotel recreation site.  
 Responsibilities: Drupal 7 full app developing.  
 Site: <http://ailant.com.ua/>
- 04.2013– **X-Rift.**  
 12.2013 Description: Augmented reality game for android.  
 Responsibilities: Designing and implementing server infrastructure, restful api service and monster AI.  
 Libraries: pymongo, flask, requests, threading
- 05.2013– **EnlNexus.**  
 06.2013 Description: Android app for notification about Ingress game process.  
 Responsibilities: Designing and implementing server infrastructure, parsing ingress.com/intel, process json data.  
 Libraries: pymongo, flask, requests  
 Source: <https://bitbucket.org/clutcher/enlnexus>
- 11.2012– **PMT.**  
 01.2013 Descriptions: set of scripts for calculating the strength of the pipes with defects.  
 Responsibilities: app full development, math background, making edits in Ukraine State Standards.  
 Source: <https://bitbucket.org/clutcher/pmt>
- 03.2012– **NRT.**  
 01.2013 Description: Set of tools for modeling and analyzing complex networks.  
 Responsibilities: app full development, math background.  
 Libraries: networkx , pyqt, matplotlib  
 Source: <https://bitbucket.org/clutcher/nrt>
- 7.2011– **Kraftman.**  
 10.2013 Description: Corporate site for printing equipment distribution.  
 Responsibilities: Drupal 7 full app developing.  
 Site: <http://kraftman.com.ua/>

## Languages

Russian **Native**  
 Ukraine **Native**  
 English **Intermediate**