

Personal information:

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Expertise:

- **Programming languages:** Java, Java Script, Perl, C/C++, C#, SQL, PHP, Python.
- **Markup Languages:** XML, HTML
- **Styling:** CSS, LESS, SCSS
- **Operating systems:** MS Windows, Linux
- **DBMS:** InterBase/FireBird, MySQL, MongoDB, Postgres SQL
- **Indexing/search engines:** Elastic Search, Sphinx
- **Support:** Installation, Configuration, Backup, Optimization, Hardware and Software troubleshooting
- **Internet technologies:** HTTP, FTP, CGI, AJAX

Professional Skills:

- Development skills on Windows (C++ .NET, MS C#, Java SE), Linux(C/C++, PHP, Perl, Java SE, bash). Good knowledge of object-oriented programming. Experience in RDBMS developing based on InterBase/FireBird, MySQL, Postgres; Client/Server technology; Process of XML and binary serialization due high level network communications; Experience with Document-Oriented databases MongoDB.
- Strong mathematics background. Good knowledge of numeric analysis and graphs theory. Familiar with formal languages theory.
- Strong base of network programming for different platforms; implementing of application layer logical protocols. Familiar with daemon applications concepts and their implementation.
- Good understanding of building applications in a Web environment. Technical experience: Java Scripting; HTML; CSS; Java Applets; LES; SCSS; ReactJS. Work and configuration of web servers. Experience with AJAX technology.
- Familiar with computer and network equipment. Experience in computer equipment configuring and maintaining. Experience with firewalls.
- Experienced in MS Windows, Linux and Unix networking including it's setup, maintenance.
- System modeling and design using UML diagrams and UML patterns.
- Familiar with Logical programming (Prolog, SWI Prolog).
- Parallel programming, multi-threading for Windows and Linux platforms.
- Familiar with Java ME programming.
- Experienced in Linux servers configuration: Web server, DNS, IP-PBX

Studies:

2004 - 2008

Technical University of Moldova, Chisinau, Moldova

Faculty of Computers, Informatics and Microelectronics.

Professional Experience:

Period of time	Company/function	Projects
May 2017 - present	«Sonero-Com» LTD CTO	Development of the web-based information system ensures management of alert messages, which are to be published on information boards installed in public transport stations. Used stack • PHP + Symfony • PostgresSQL • RabbitMQ
		Deployment, tech support and development of environmental protection platform connecting citizens with Moldova's Inspectorate for Environmental Protection, serving as a step toward digital services and smart tools for reporting environmental issues. (https://ecoalert.md → ecoalert.ipm.gov.md). Includes: • tech support • application development • integration of Governamental services: ◦ mPass • used stack: ◦ GoLang ◦ MongoDB ◦ React JS ◦ Python
		Deployment, tech support and development of internal integrated electronic document management system for Moldova's Environmental Protection Inspectorate (https://documente.ipm.gov.md). Includes: • tech support • application development • integration of Governamental services: ◦ mPass ◦ mSign • used stack: ◦ PHP + Laravel ◦ MySQL ◦ Vue JS
		Tech support and development of internal integrated electronic document management system for Moldova's Environment Agency (https://documente.mediu.gov.md). Includes: • tech support • application development • integration of Governamental services: ◦ mPass ◦ mSign • used stack: ◦ PHP + Laravel ◦ MySQL ◦ Vue JS
		Tech support and development of official online portal from Moldova's Environment Agency where residents and non-residents can request and verify fishing permits for the country's lakes and rivers (https://e-pescuit.mediu.gov.md/).

		Includes: • tech support • application development • integration of Governamental services: ◦ mPass ◦ mSign ◦ mPay • used stack: ◦ PHP + Laravel ◦ MySQL ◦ Vue JS
		Development and support of temperature and humidity monitoring system according to the GPP standard for Identity Store SQL. Teck stack: • Server side: ◦ PHP + Symfony ◦ Postgres SQL ◦ RabbitMQMQTT ◦ MQTT • Client side ◦ Python ◦ MySQL • ZigBee sensors
		Development of application «Issuance of the act of conformity» ANRE (https://ecorespondere.anre.md/). Includes: • business analysis of existing processes and flows • definition of automation • application development • integration of Governamental services: ◦ mConnect ◦ mPass ◦ mSign • used stack: ◦ PHP + Symfony ◦ PostgresSQL ◦ RabitMQ
		Development of application «Wholesale market for energy products» ANRE (https://remit.anre.md). Includes: • business analysis of existing processes and flows • definition of automation • application development • integration of Governamental services: ◦ mConnect ◦ mPass ◦ mSign • used stack: ◦ PHP + Symfony ◦ PostgresSQL ◦ RabitMQ
		Tech support and development of software used for tracking of technical inspections of electrical installations at ANRE (https://eportal.anre.md). Includes: • tech support • application development • integration of Governamental services: ◦ mPass ◦ mSign • used stack: ◦ PHP + Laravel ◦ MySQL ◦ Vue JS
		Development and support of platform for managing advertising and informational content on a network of physical screens/panels installed at public transport stops/stations for Identity Store SRL. Teck stack:

		• Server side: ◦ PHP + Symfony ◦ Postgres SQL ◦ RabbitMQ • Client side ◦ Python ◦ Stimulus JS ◦ Vue JS ◦ MySQL • Monitoring boards ◦ controllers based on ESP32 ◦ Mongoose OS
		Optimisation of electricians and laboratories authorization for ANRE (https://examen.anre.md/). Includes: • business analysis of existing processes and flows • definition of automation • application development • integration of Governmental services: ◦ mConnect ◦ mPass ◦ mSign • used stack: ◦ PHP + Symfony ◦ MySQL
		Development of APIs used as abstractisation level for crypto networks offering the same interface for few types of networks: • APIs on top of Ethereum • APIs on top of Tron
		Optimisation of electricians and laboratories authorization for ANRE. Includes: • business analysis of existing processes and flows • definition of automation • application development • integration of Governmental services: ◦ mConnect ◦ mPass ◦ mSign
		Development of new features for « www.liberatingresearch.com » (in progress)
		On-line catalog « lrparts.md » (updates in progress)
		Online furniture store « nyfurnitureoutlets.com » (updates in progress)
		Online furniture store « nfoutlet.com » (updates in progress)
		Website for hotel Zarea
		AtletMed Internal application for athlets management, tracking of their medical examinations. (updates in progress)
		Internal application used to register and manage people cared by ONG «Genderdoc M». Includes services tracking and complex reports.
		On-line catalog « www.daxencom.md »
		Website « baravara.se »
		Development of new features for «skill capital»
		Website used to online register companies in France: - registration - complex data collection (forms built dynamic depending on selected answers and filled informations). Similar with https://www.typeform.com/

	- company incorporation follow-up - documents validation (User ID, passport, Permission of stay etc) with Onfindo and AriadNext services - retrieving information about companies using Infogreffe service - complex state-machine for incorporation process Used technologies, languages, libraries and tools: - PHP - Symfony 3 - Doctrine ORM - MySQL - JavaScript, jQuery, bootstrap JS - beanstalkd jobs - Stripe (stripe.com) - Onfindo (onfido.com) - AriadNext (ariadnext.com) - Infogreffe (www.infogreffe.fr) - PHPUnit
«Pentalog CHI» LTD, Team-Leader	Front-end for website used to order meal to office (www.nestorparis.com): - registration - cart + order - payment Used technologies, languages, libraries and tools: - PHP - Symfony 3 - Doctrine ORM - MySQL - prestashop WS (client's backend) - JavaScript, jQuery - React JS - Stripe (stripe.com) - PHPUnit
«Pentalog CHI» LTD, Team-Leader	Startups management and follow-up application for startups incubator (TheFamily): - startups registration and follow-up - collective decisions about startup activity - Slack bots for voting, feedback, notifications - distributed knowledge-base management (local, web-site, youtube, vimeo, Amazon S3) - partners management Used technologies, languages, libraries and tools: - PHP - Laravel 5 - MySQL - JavaScript, jQuery, bootstrap JS - React JS - SCSS - nodejs - algolia search (algolia.com) - Slack (slack.com) - PHPUnit - Selenium - behat
Freelance	Website used to meet doctors, patients and charity organizations for paid research (www.liberatingresearch.com): - complex registration processing - polls based on conditions assigned to user - complex conditions/treatments/medications structure - users management and verification - lookup values/reasons management (conditions, treatments, medications, practices etc)

		- payments management Used technologies, languages, libraries and tools: - PHP - Symfony 2 - Doctrine ORM - MySQL - JavaScript, jQuery - PHPUnit - Selenium - behat
	Freelance	CRM for a real-estate company (kirsan): - properties management - employees and customers management - WS for data export/feeds - data import from 3rd party sources (WS, files, parsing websites) - full-stack properties follow-up (responsible, realtor assignment, geolocation, history) - complex dynamic forms built depending on: category, offer type (sale, rent), property type (new, used) - offers matching (offers to buy and sale) Used technologies, languages, libraries and tools: - PHP - Symfony 2 - Doctrine ODM - MongoDB - JavaScript, jQuery, bootstrap JS - LESS - PHPUnit - Selenium
	«Pentalog CHI» LTD, Team-Leader	Real-estate announcement website (skill capital): - announcements import from 3rd party WS - search with calculation of relevance based on filter values, geolocation and level of similarity Used technologies, languages, libraries and tools: - PHP - silex - MySQL
	Freelance	HR knowledge-base application for UK customer: - employees/companies/people/deals management - parsing and morphological search in documents (txt, doc, docx, xls, xlsx, pdf, ppt) - data import - assignment people to job positions and follow-up of generated deals Used technologies, languages, libraries and tools: - PHP - Symfony 2 + Doctrine ORM - MySQL - Sphinx search - 3rd party document types convertors - JavaScript, Ajax - CSS - PHPUnit
	«Pentalog CHI» LTD, Team-Leader	Back-office application whose main aim is to manage the holiday packages dedicated to disabled people. The existing application is available in the form of an Excel file, the project focusing on transforming it into a web solution. Key features: - employees and patients management - medical, personal, kitchen inventory management

	- occasional and regular activities planning and management - daily meals planning including ingredients with their costs - medical prescriptions management with consumption follow-up - reports and patients' cards - accounting with planned vs real costs - integration with google docs for shared documents - extension of TWIG template engine Used technologies, languages, libraries and tools: - PHP - Symfony 2 + Doctrine ODM - JavaScript, Ajax, bootstrap JS - MySQL - Google Docs
«Pentalog CHI» LTD, Team-Leader	Maintenance of online taxi booking system (www.pickmecab.fr): - customers management - costs based on source/destination/intermediary points type (simple, airport, railway station), individual/collective booking, geoposition of points - payment, prepayment and bonus cards Used technologies, languages, libraries and tools: - Symfony 2 + Doctrine ODM - Magento - MySQL - MongoDB - JavaScript, Ajax - mappy.com web services
Freelance	Web application for medical care costs: - customers management - complex tariffs management based on conditions, countries of treatment and assurance type - complex forms used to collect all detailed information about customer's conditions - reports generation Used technologies, languages, libraries and tools: - Symfony 2 + Doctrine ORM - JavaScript, Ajax - MySQL
«Pentalog CHI» LTD, Team-Leader	On-line accounting system: - clients management - products management - billing Used technologies, languages, libraries and tools: - Symfony 2 - Propel - ExtJS - MySQL
«Pentalog CHI» LTD, Engineer programmer	Big project for real estate agency including (pap.fr): - clients management - real estate management - flexible tariffs system - payments management - content management with a complicated publication workflow Used technologies, languages, libraries and tools: - PHP 5.3, PHP 5.4 - MongoDB - MySQL - APE - Tsung + SNMP - GIT

		- REST WS - Symfony 1.4 and Symfony 2 - Doctrine ORM and ODM - JS (jquery) - shell scripting
May 2012 – August 2013	«ITIntegro» LTD, co-owner, ingineer programmer	Several simple sites like based on Joomla CMS IP PBX systems based on Asterisk and Softswitch and their integration with other systems: - a2billing - Sugar CRM and vTiger CRM - custom systems - own simple billing for smartswitch and it's integration with e-learning system Payments processing system and integration with 3rd party payments protocols including: - Qiwi (protocol integration) – 2 way communication, receiving and sending payments - Rompay (protocol integration) – 2 way communication, receiving and sending payments - VictoriaBank (protocol integration) – 1 way communication, receiving payments - data synchronization over several different systems: users, accounts, orders etc
Jun 2010 – May 2011	Alextro LTD, Chisinau, Moldova. Engineer	Asterisk PBX integration: - scripts for automated deployment: Asterisk + FreePBX + chan_mobile + chan_datacard - patches for CDR - trunks balancing - integration with Sugar CRM and vTiger CRM - custom extensions for calls routing and commutation - extensions for a2billing Used technologies, languages and libraries: - PHP - Asterisk AGI - MySQL Alextro CRM – a complex system for clients, deals, products management; invoices generation and processing, client balance; Time based services. Used technologies, languages and libraries: - PHP / CLI PHP - bash scripts - JavaScript - CSS - Ajax - adodb library for PHP - Firebird RDMS - Smarty templates engine - JQuery, JQuery UI - TCPDF PHP library - PHP-Excel library CRM for computer service center. Key features: - clients management (history, balance, contacts...) - store (hardware classification, bar codes, hardware incomes ...) - orders management - full lifetime control - employees (management, projects/managers assignment, salary etc) - stats and reports Used technologies, languages and libraries: - PHP / CLI PHP - bash scripts - JavaScript - CSS - Ajax - Linux specific functions (cron)

		- adodb library for PHP - Firebird RDMS - Smarty templates engine - JQuery, JQuery UI - TCPDF PHP library - PHP-Excel library Billing for internet access in hotel Key features: - free trial accounts - paid accounts with different access level (time limit, speed limit, traffic limit) - conference room packages (time/speed/traffic limit) using WiFi access point - restaurants access control - stats and reports Used technologies, languages and libraries: - PHP / CLI PHP - bash scripts - JavaScript - CSS - Ajax - Linux specific functions (cron) - adodb library for PHP - MySQL - Smarty templates engine - JQuery, JQuery UI - TCPDF PHP library - Mikrotik Routerboard - FreeRadius - Perl Some Joomla based web sites: chisinau.hotels.md, hotelsmotels.ro, мотел.рф, freebookhotels.com etc.
Jan 2007 – Jun 2010	Nebuloasa LTD (DQTeam), Chisinau, Moldova. Engineer.	A “match 3”-like game based on Unity 3D engine. Not finished at that moment. jurnal.md – web site with a CMS for progressive data generation and automated synchronization over several mirrors Used technologies, languages and libraries: - PHP / CLI PHP - bash scripts - JavaScript - CSS - Ajax - Linux specific functions (cron, rsync) - adodb library for PHP - Firebird RDMS - Smarty templates engine - JQuery, JQuery UI jurnaltv.md – complex video streaming system with a main “management” server and several proxies (clones of the same VM) controlled by it. Main server supports independent control of several channels and multiple sources with mapping them. Used technologies, languages and libraries: - Java SE - Firebird RDMS - Jaybird - Bash scripting - Amazone EC2 virtual machines - AWK - VLC - Linux specific functions (cron, xinetd etc) - JQuery, JQuery UI uploader – a proprietary Java applet and server side for

		parallel uploading of several big files (each file is sent chunk by chunk) with auto-generated browser dependent JS wrapper, event handlers for upload progress/queue manipulation etc. , controllable files queue. Used technologies, languages and libraries: - Java SE - PHP (for server side) - Ajax - JavaScript A demo version MMORPG (server side) with the following features: - objects positioning (calculating movement, collision detection ..) - clients interaction - security system Used technologies, languages and libraries: - Ogre 3D (client side) - POCO C++ libraries - GNU C++ - Firebird RDMS - Linux specific functions (cron, xinetd, futex etc) <i>foodloversbritain.com</i> – a complex system with the following functionality: - CMS for automated pages generation with predefined set of blocks, layouts and content element types - CRM for partners management with different membership options - client cabinet - payments processing - advanced search including geographic position and with results on Google Maps - web services used as data source for external applications Used technologies, languages and libraries: - PHP - JavaScript - Ajax - adodb library for PHP - Firebird RDMS - Smarty templates engine - Xajax PHP library A library for PHP, written in C used as Interbase API wrapper for extended usage in PHP scripts. Key features: - Low level transactions control - multi-database connect - 2 phase commit - full SQL types support (according to Firebird/Interbase implementation) Used technologies, languages and libraries: - C language - PHP Zend engine - Interbase API - Firebird RDMS <i>clippy.com</i> (has been changed since that time) – a CRM with the following functionality: - companies management, including theirs personal, relationships, contacts etc. - regional positioning of employeers - payments processing, processing of bank reports containing list of payment transactions for specified company - sales functions Used technologies, languages and libraries: - PHP - JavaScript - Ajax
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		- adodb library for PHP - Firebird RDMS - Smarty templates engine - Xajax PHP library other web sites based on proprietary web engine “FireWeb”: victoriabank.md, maib.md, justice.gov.md etc. Used technologies, languages and libraries: - PHP / CLI PHP - JavaScript - CSS - Ajax - adodb library for PHP - Firebird RDMS - Smarty templates engine - JQuery, JQuery UI
Apr 2006 – Jan 2007	Media PRO LTD, Chisinau, Moldova. - Air assistant - Graphics - Hardware support	
2004	S.A. Taxi Service, Chisinau, Moldova, LAN System Administrator - Local network administration - Hardware support	
2002	Disco club „Baltika”, Chisinau, Moldova, LAN System Administrator - Local network administration - Hardware support	

Languages:

Russian – native, Romanian – fluent, English – medium, French – medium.