

Resume

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Python/FullStack Software Engineer, XP coach, Solution/Application Architect

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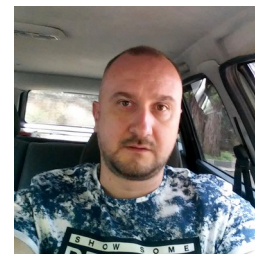
E-mail: emacsway@gmail.com

Www: <https://emacsway.github.io/about/>

Blog: <https://emacsway.github.io/>

Open Source (primary): <https://bitbucket.org/emacsway>

Open Source (secondary): <https://github.com/emacsway>



About me:

A Software Design and Agile expert.

Was participated in development of software for various business domains - B2B and marketplace platforms, social networks, enterprise content management systems, content aggregators, GIS and travel portals, brainstorm tools etc.

My main interest is to make the code clean, simple and maintainable; the implementation of new features [rapid and cheap](#); the curve of cost of code change asymptotic (instead of exponential); the risks low; the team successful.

Real experience of establishing economically successful Agile development. Deep background in XP, TDD, DDD, Refactoring, Evolutionary Design, Clean Code/Architecture, Microservices and others. Extensive [bibliography](#).

Also I'm an Open Source [developer](#) and an adherent of [KISS](#) principle. My philosophy is: "Do it shortly, clearly".

Education:

1994-1999 - The Dnepropetrovsk State Technical University of Railway Transportation

Open Source Projects:

Python:

- * rope (contributor) - a python refactoring library. <https://github.com/python-rope/rope>

- * SQLBuilder (author) - a lightweight Python SQLBuilder. Can be integrated with Django.

<https://bitbucket.org/emacsway/sqlbuilder>

- * cache-dependencies (author). Cache-dependencies (former Cache-tagging) allows you easily invalidate all cache records tagged with a given tag(s). The package supports Django. <https://bitbucket.org/emacsway/cache-dependencies>

- * Ascetic ORM (author) - a lightweight Python DataMapper ORM (the project is incomplete). <https://bitbucket.org/emacsway/ascetic>

JavaScript:

- * Store.js (lead contributor) - a super lightweight implementation of Repository pattern for relational data and aggregates. The library allows you to use Domain-Driven Design (DDD) on client-side as well as reactive programming. <https://github.com/emacsway/store> (canonical repo: <https://github.com/joor/store-js-external>).

Articles:

Articles in English:

- * "Implementation of Repository pattern for browser's JavaScript" <https://emacsway.github.io/en/javascript-and-repository-pattern/>

- * "About my experience of using Django Framework" <https://emacsway.github.io/en/django-framework/>

- * "Design of Service Layer" <https://emacsway.github.io/en/service-layer/>

- * "About problems of cache invalidation. Cache tagging." <https://emacsway.github.io/en/cache-dependencies/>

- * "How to quickly develop high-quality code. Team work." <https://emacsway.github.io/en/how-to-quickly-develop-high-quality-code/>

- * "Why I prefer Storm ORM for Python" <https://emacsway.github.io/en/storm-orm/>

- * ... all articles in English: <https://emacsway.github.io/blog/language/english/>

Articles in Russian:

- * "Про Agile на пальцах. Путь к быстрой разработке." <https://emacsway.github.io/ru/easily-about-agile-way-to-rapid-development/>

- * "Реализация паттерна Repository в браузерном JavaScript" <https://emacsway.github.io/ru/javascript-and-repository-pattern/>

- * "О моем опыте использования Django Framework" <https://emacsway.github.io/ru/django-framework/>

- * "Управление логикой приложения. Про MVC, Use Case, Service Layer, CQRS, Event Sourcing и др." <https://emacsway.github.io/ru/application-logic-management/>

- * "Проектирование Сервисного Слоя" <https://emacsway.github.io/ru/service-layer/>

- * "О проблемах инвалидации кэша. Тегирование кэша." <https://emacsway.github.io/ru/cache-dependencies/>

- * "Почему я выбираю Storm ORM для Python" <https://emacsway.github.io/ru/storm-orm/>

- * ... all articles in Russian: <https://emacsway.github.io/blog/language/russian/>

Bibliography:

Architecture & Design:

- * "Design Patterns: Elements of Reusable Object-Oriented Software" by Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides

- * "Pattern Hatching: Design Patterns Applied" by John Vlissides

- * "Patterns of Enterprise Application Architecture" by Martin Fowler, David Rice, Matthew Foemmel, Edward Hieatt, Robert Mee, Randy Stafford

- * "Refactoring: Improving the Design of Existing Code" by Martin Fowler, Kent Beck, John Brant, William Opdyke, Don Roberts

- * "Clean Code: A Handbook of Agile Software Craftsmanship" by Robert C. Martin

- * "Code Complete" by Steve McConnell

- * "Domain-Driven Design" by Eric Evans

- * "Test-Driven Development By Example" by Kent Beck

- * "Building Microservices. Designing Fine-Grained Systems" by Sam Newman

Programming languages:

- * "Learning Python" by Mark Lutz

- * "Python Tutorial" and "Python HOWTOs" (official)

- * "JavaScript: The Definitive Guide" by David Flanagan

- * "JavaScript Patterns" by Stoyan Stefanov

- * "ng-book 2: The Complete Guide to Angular" by Nate Murray, Felipe Coury, Ari Lerner, and Carlos Taborda

Databases:

- * "PostgreSQL" by Koray Douglas, Susan Douglas

- * "NoSQL Distilled. A Brief Guide to the Emerging World of Polyglot Persistence." by Pramod J. Sadalage, Martin Fowler

Algorithms:

- * "Algorithms and Data Structures" by N.Wirth

Compilers & Parsers:

- * "Compiler Construction" by N.Wirth

Methodologies:

- * "Extreme Programming Explained" by Kent Beck

- * "Planning Extreme Programming" by Kent Beck, Martin Fowler

- * "The Clean Coder" by Robert C. Martin
- * "Scrum and XP from the Trenches: How We Do Scrum" by Henrik Kniberg

Operational system:

- * "Unix and Linux System Administration Handbook" by Evi Nemeth, Garth Snyder, Trent R. Hein, Ben Whaley
- * "The Linux® Kernel Primer: A Top-Down Approach for x86 and PowerPC Architectures" by Claudia Salzberg Rodriguez, Gordon Fischer, Steven Smolski
- * "Digital computers and microprocessors" by Aliyev / "Цифровая вычислительная техника и микропроцессоры" М.М.Алиев

English:

- * "Friendly meetings with the English language" by Maria A. Kolpakchi
- * "English. Reference materials." by Ksenia A. Guzeeva, Tamara G. Troshko

Technologies & approaches:

- * Programming languages: Python (primary, since 2008), JavaScript/TypeScript (strong), Ruby (sometimes), PHP (in the past).
- * Development environment: Emacs (sometimes VIM, PyCharm).
- * Approaches: XP, TDD, DDD, SOLID, OOP, OOD, Design Patterns, DIP, Refactoring, Evolutionary Design (aka Designing Through Refactoring), Clean Code & Clean Architecture, Software Architectural Design, Database Architecture, Low Coupling & High Cohesion, SRP, OCP, GRASP, Microservices etc.
- * DB & storages: MySQL, Spatial, PostgreSQL, PostGIS, tsearch2, MongoDB, Redis, Memcached, replication, sharding, analysing, SQL optimization.
- * Frameworks: Django (mainly), Flask, also used Aiohttp, Tornado, Twisted, Ruby on Rails, etc.
- * JavaScript Frameworks: Dojo, Dojo2, jQuery, AngularJS, Angular2+.
- * OS: Debian (server), ArchLinux (desktop, server), Ubuntu (desktop, server), Fedora (desktop, server).
- * Bug-tracking: Jira (mainly), Trac, Redmine, Pivotal Tracker.
- * HTTP servers: Nginx (mainly), Apache2, Lighttpd, Unicorn.
- * CVS: Mercurial (mainly), GIT, SVN, Bazar.
- * Services: New Relic, Heroku, AWS, Atlassian.
- * Others: Docker, Eventlet, GDB, Celery, geographic information system (GIS), Storm ORM, multiprocessing, threading, queue, async, Solr, morphology, Pinax, business-transactions, high-load, high level concurrency, Remote Facade, DTO, cache invalidation based on tagging, automatic text processing, ACL, social networks integration.
- * Also, I've a good (5+ years) experience in PHP, Zend Framework, Drupal, but it, mainly, in the past (2004-2009).

Experience:

- * Jul 2017 - present - Solution Architect and XP coach at Business Technologies www.biz-tek.ru. Introduced best practices of Software Design and Agile software development (TDD, XP, CI, CD, DDD, SOA, Microservices, Designing Through Refactoring etc.). Keeping the flattened change cost curve of the project. Clean architecture and rapid development. Quick MVP creation. Created proprietary library for Django model audit which implements Slowly Changing Dimensions (SCD) - Type 4 and supports versioned relationships. Technology stack and approaches: Python, JavaScript, PostgreSQL, RESTful API, Django, Django-rest-framework, Angular5+, AWS, Heroku, Docker, Scrum, Jira etc. About the project [in Russian](#).
- * Nov 2016 - Jul 2017 - Senior Full Stack Software Engineer (remote) at jooraccess.com, the global wholesale marketplace where the biggest brands and best retailers do business online. Introduced TDD (and some other practices of XP), DDD, Designing Through Refactoring, code review based on catalog of refactorings and catalogs of code smells, continuous review, monitoring with New Relic. Solved a lot of issues of architecture and design. Improved quality of the codebase. Reduced time of implementation of new features due to the introduced design approaches. Performed some duties of Solution Architect. Created the high-level library Store.js (<https://github.com/emacsway/store>) to handle data on client-side. Technology stack and approaches: Python, JavaScript, PHP, Bash, Django, PostgreSQL, jQuery, AngularJS, Dojo, RESTful API, CORS, JWT, Django-rest-framework, CakePHP, Redis, Celery, Pl/SQL, AWS, Ubuntu, Scrum, etc.
- * Feb 2013 - Jul 2016 - Senior Backend Developer (remote) at rebelmouse.com, the best online CMS for social websites. Actively used Designing Through Refactoring, TDD, code review based on catalog of refactorings and catalogs of code smells. Debugging on production and low-level debugging with GDB. Backend/SQL high performance optimization. Monitoring with New Relic. Implemented social networks integration, polymorphic relations, ACL, statistics, data analytics. Technology stack and approaches: Python, Bash, Django, MySQL, MongoDB, RESTful API, Redis, Celery, Memcached, Eventlet, Ubuntu, replication, clustering, document-oriented data storage, Kanban, etc.
- * Aug 2011 - Mar 2013 - Senior Full Stack Software Engineer (remote) at tripster.ru, the Russian travel portal and FAQ for independent travelers. Technology stack and approaches: Python, JavaScript, Bash, Django, GIS, jQuery, MySQL, RESTful API, Solr, Nginx, Memcached, Debian, sub-processing, threading, Queue, Async, 3-d SQL Builders, morphology, fast compiled template engine wheezy.template, automatic text processing, etc. Implemented a lot of basic features, social networks integration, HTML5 API History for legacy browsers, geonames services, partner's API, advanced ACL, flexible user notification, various Ajax UI widgets, cache dependencies, phased cache (with nocache fragments), cache cleaning synchronization with DB transactions. Backend/SQL high performance optimization.
- * Jul 2010 - Jun 2011 - Team Leader at Soft-Ukraine. Developed an online corporative brainstorm system. Technology stack and approaches: Python, JavaScript, Bash, Django, Dojo, jQuery, PostgreSQL, RESTful API, MVVM, dojox.data.JsonRestStore, Ajax UI, Ruby On Rails, Pinax, Debian, Multilingual, etc. System Administration.
- * Oct 2009 - Jul 2010 - Co-founder and CTO at Dstudio. Organized mass production of business card site using Drupal. Developed a city portal using Django and Pinax. Organized infrastructure and team training. System Administration. Technology stack and approaches: Python, JavaScript, PHP, Bash, Drupal, Django, Pinax, Redmine, Trac, Debian, etc.
- * Jan 2004 - Oct 2009 - Zakrevskiy Entrepreneur. Web-development using PHP, Python, JavaScript. Development and maintenance of an industrial business portal. Technology stack and approaches: Python, JavaScript, PHP, Bash, Django, PostgreSQL, MySQL, Dojo, jQuery, Zend Framework, Pinax, Debian, etc.

Afterword:

"The value of good software design is economic: you can continue to add new functionality quickly even as the code-base grows in size." ("Design Stamina Hypothesis" by Martin Fowler)