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Software Development Engineer / PhD

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CORE COMPETENCIES

- Software design
- System analysis
- Design and implementation of backend and microservices
- Relational DB's optimization and reliability
- Project planning and management

TECHNICAL SUMMARY

Programming languages

- Go
- PHP
- JavaScript/NodeJS
- Python
- C#
- lava
- C/C++
- Lua

Databases & Full-text search

- MySQL
- PostgreSQL

SUMMARY

I have more than 10 years of commercial web development, building high-quality sites and services. I was working at the international company developing a high-load cloud-based Learning Management System (iSpring Learn LMS).

Currently, I'm specializing in the next core tech stack: Golang & MySQL/PostgreSQL & "js" (nodejs, vue.js, angular) & Docker.

I have a deep knowledge of relational databases and its optimization, configuration, and its reliability. I even worked as a teacher of "Databases" course.

I've finished my post-graduate thesis in Russia on semantic source code editors aka structure editors. Also developing some side-project / startup with my friends: a SaaS system for learning UX/UI topics.

WORK EXPERIENCE

2022 - Software Engineer

now ArangoDB

Working on various tools for ArangoDB ecosystem. Among them: Go-lang DB driver, k8s operator & charts, Cluster-to-Cluster repication system. Some projects are available at GitHub.

Technologies: Go, k8s, Docker, Linux OS.

2018 - Freelancer

2021 Self-Employed

Working on various projects. Mainly backend services implementation, script automation, microservices design, and system programming. Also started some side project.

Senior Software Engineer

2020 cloudradar GmbH

Working on an open-source agents for server-monitoring and networks-tunneling software in Go language. Some DevOps tasks too. The projects are available at GitHub.

Tasks: adding new features to existing server-monitoring agents. Implementing CI pipelines for cross-platform packaging. Implementing first version of rport - a simple command line tool to create tunnels over HTTP/TLS/WebSockets to any endpoint, bypassing firewalls or network restrictions.

- Redis
- MongoDB
- Sphinx

Server administration & Tools

- nginx / openresty
- Docker / Docker Compose / Docker Machine
- Ansible
- Zabbix
- Prometheus
- fabric

Other

- Git
- Swagger
- RabbitMQ
- ffmpeg
- TokBox

Frontend development

- WebRTC
- iQuery
- vue.js
- Angular
- Bootstrap

HOBBY/SIDE PROJECTS

 Breezzly.ru - a small start-up with my friends. Technical execution / CTO. Technologies: Go, Docker, Linux OS, Windows API, GitLab CI.

2015 - **Senior Software Developer**

2018 iSpring Solutions

Started mentoring and guiding company's newcomers and interns. I was working on projects as a team leader/ developer.

Tasks: Design and development of services from scratch, development of necessary libraries, refactoring and automation.

Technologies: PHP, Go, Python, C#, NodeJS, WebRTC, MySQL, RabbitMQ, HTML/JS/CSS, Symfony, Redis, Sphinx, Docker, Amazon Web Services.

Accomplishments:

- Optimized internal tool for making backup versions of main product sites
- Rewritten and optimized security module for webservice using openresty-LUA scripting and Redis keyvalue storage
- Rewritten 'iSpring Webinars Recording' feature using TokBox 'individual streams archives' API. Created special web-service for video processing using ffmpeg with the option of easily scaling up/down
- Started and actively participated in iSpring Content Library project: backend service for 'Content Library' application
- For the first time in company implemented webservice release automation using TeamCity and Fabric
- Implemented backend .NET service for MS Equation file processing
- Moved the test code base of the big project to Codeception framework, added acceptance testing.

2015 - Lecturer at local institute & university

2018 Institute of Programming Systems and Volga State Technical University (Russia)

Gave lectures on:

- Database programming & information analysis.
- Software development management: Agile, Scrum, etc
- Introductory course for first-year students

2012 - **Software Developer**

2015 iSpring Solutions

I've joined the team of iSpring Learn Learning Management System development. I was working on core features and MySQL optimization. Also worked on iSpring Cloud platform (presentations sharing web service) from the scratch. **Tasks:** Design and development of services from scratch, development of necessary libraries, refactoring and automation.

Technologies: PHP, MySQL, RabbitMQ, HTML/JS/CSS, Symfony, Redis, Sphinx, Amazon Web Services.

Accomplishments:

- Implemented video transcoding of uploaded videos using AWS Elastic Transcoder/SNS/S3
- Implemented in-browser data recovery system for user statistics
- Implemented full-text search for web-service using Sphinx
- Implemented the first version of internal urlshortener service that can process links like http://ispri.ng/xxxxx
- Participated in iSpring Webinars development, which allows LMS users to hold conferences and calls. The system is based on WebRTC and TokBox Platform

2011 - Software developer / Student Intern

2012 iSpring Solutions

I was developing Flash/ActionScript applications and web-sites for company products

Technologies: Flash/ActionScript3, HTML, JS, CSS, PHP.

EDUCATION

2015 - **PhD, Computer Science**

2020 Mari State Technical University (Volgatech)

2010 - Master of Engineering, Computer Science

2015 Mari State Technical University (Volgatech)

https://en.volgatech.net/

PUBLICATIONS

2020 Model and algorithms of Integrated
Development Environment with structure
editor for software source code

PhD Thesis, 2020

https://ugatu.su/media/uploads/MainSite/Science/dissovet/07/2020/vanyasin-nv/dissert_vanyasin-nv.pdf

2019 Architecture for Integrated Development Environment with structure editing support

Information Technologies, Mechanics and

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https://cyberleninka.ru/article/n/arhitektura-integrirovannoy-sredy-razrabotki-programmnogo-obespecheniya-s-podderzhkoy-strukturnogo-redaktirovaniya

2018 Structure editor for semantic edition of source code

IS&IT - 2018

http://en.e-notabene.ru/kp/article 18881.html

2017 Semantic code editing in intelligent IDEs

Cybernetics and programming. — 2017 - №1 http://en.e-notabene.ru/kp/article_18881.html

2016 Hierarchical Semantic Database Structure of the E-Learning Systems

Handbook of Research on Estimation and Control Techniques in E-Learning Systems

https://www.igi-global.com/chapter/hierarchicalsemantic-database-structure-of-the-e-learningsystems/142450

2015 Institute Hierarchy Mapping to iSpring Online LMS User Role Restrictions

Электронное обучение в непрерывном образовании 2015 II Международная научно-практическая конференция https://elibrary.ru/item.asp?id=23152223

2015 HIERARCHICAL SEMANTIC NETWORK STORAGE METHOD FOR RELATIONAL DATABASES

OSTIS-2015