t.me/sergey1369

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sergey1369

sergey1369.github.io/cv

Pattaya, Thailand

HARD SKILLS

- Back-end Developer
  NodeJS, C, C++, SQL
- Web Developer
  CSS, HTML, JavaScript
- Full-Stack Developer
  Nginx, PHP, Yii, Python
- Linux System Engineer
  Alpine, Ubuntu, RHEL
- DevOps Engineer
  Kubernetes, oVirt, JFrog

SOFT SKILLS

- Hard-working
  Work is fun!
- Problem-solving
- Self-study
- Communication
- Teamwork

LANGUAGES

- English (fluent)
- Russian (native)

SERGEY V.

BACK-END DEVELOPER

➤ PROFESSIONAL EXPERIENCE

I have worked as a back-end developer, a full-stack developer, and a Linux engineer. I understand DSA, MVC, OOP, OOD principles, design patterns, and agile development. I like the ideas behind DRY, KISS, SOLID, and keep them in mind.

I start with a straightforward approach, read the docs, and follow framework guidelines. When it isn't enough, I read source code and google for hints, best practices, and algorithms.

My projects were telecom services, websites, network apps, and system scripts. You can see a list here.

Lately, I've been using Javascript (nodejs) and C++ for back-end development.

➤ WORK EXPERIENCE

MegaFon

till October 2022

I worked as a senior engineer and an expert here. My main responsibility was telecom service development. Services were deployed to oVirt virtual machines (early) and Kubernetes clusters (lately). Also, I made a few websites for management and a lot of system maintenance scripts. Tech stacks were lua, nodejs for REST APIs, C++ for inter-system communication, python, and bash for system maintenance tasks.

Informika

till March 2011

I worked as a department head and took part in the development. Tech stacks were PHP, MySQL, Oracle. Our main product was www.edu.ru (a big portal with complex search). Also, I worked out some other important services.

➤ EDUCATION

Russian State Technological University [MATI]

Ph.D. in Engineering [1997-2000]
Master's degree in Engineering [1991-1997]

SERGEY V.
BACK-END DEVELOPER

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➤ PROJECTS

MegaFon projects

Jan 2013 - Sep 2022

Various telecom and network services:

- SIP, SMS management (NodeJS, SDP)
- SMS command processing (C++, Lua)
- SIM GSM file upload (C++, DP)
- SMS routing (C++, SMSC)
- MNP data providing (PHP, Oracle)
- Customer self-care services (CareM, Java)
- Implemented geo-reservation for some services (oVirt, BGP)

System management services:

- Continuous USSD service checking using a GSM modem (Python)
- oVirt inventory and tags management (Python)
- Management and monitoring sites (PHP, Yii, MySQL)
- Self-care services sites (Python, Django, PostgreSQL)
- Telegram OTP bot (NodeJS)
- Monitoring, reports, and data gathering (Perl)
- Database clearing, optimization, backups (Bash, PostgreSQL)
- Artifactory image uploading (Bash, docker)
- Kubernetes deployment (Bash, make, git)
- oVirt deployments (Bash, make, git)

Also, I worked with these technologies here - *Artifactory, CareM, Django, DP, Elastic search, Grafana, Kibana, MySQL, NodeJS, oVirt, Kubernetes, PostgreSQL, OpenResty, Redis, SDP, Splunk, Zabbix.*

Eastar projects

Mar 2011 - May 2012

Distribution image for NMS

> *Bash.* Downloadable image for company customers based on OpenSuse 11.4.

Network management system

> *Apache httpd, MySQL, PHP, C.* Network management system development. It allowed configuring satellite routers, sending back their configurations, and gathering stats data from them.

Informika projects

till Mar 2011

Bi-Lang morphology module for PHP

> PHP, C. It was a module for English and Russian word normalization and extension (test->TESTED, TESTS, ...). It significantly improved the context search at www.edu.ru.

Distributed backup system

> *Bash, sqlplus, rsync.* It sped up backups (about 4x faster) and solved problems with huge oracle database backups. Backups were sent to a different server each night, so hardware outage was not a big problem.

Flood blocking for Nginx

> *C, Nginx.* It was a module, which protected our servers and solved problems with DDOS attacks. It did not interfere with the whitelisted bots.

Various websites

> My department was responsible for site support and development of school-collection.edu.ru, window.edu.ru, and a few others.

Text recognition service

> *C, PHP.* It took a raster PDF or a multi-page TIFF and returned plain text (with some errors). Documents were in the Russian language. Implementation was an IPC between PHP and binaries proprietary apps (cuneiform and zbar).

www.edu.ru

> *PHP, MySQL.* It was a portal to a big number of free educational sites. The features included catalog, database search, sphinx search, data import API, etc.

HTML merging module for Apache httpd

> *C.* Apache module based on mod_proxy and mod_rewrite modules for online HTML rewriting. It

was very useful for site-in-site integration because could merge content from different sites.

I worked with *Apache HTTPd, C, Java, Nginx, PHP, Oracle portal, and Oracle database.*

Hobby projects

till Sep 2022
Bluetooth remote control
> *Nodejs.* It allows a Linux desktop to control Android TV and uses bluez dbus API to imitate LE/GATT/HID peripheral devices.

VLC patch for fast rewind/fast
> *Kotlin.* It's a patch for button reassignment. It allows fast rewinding/forwarding instead of skipping movies on my Android TV.

Tiny single-page apps
> *Javascript.* They are small apps for private notes and snippets in native HTML, JS, CSS.

Unison file synchronizer for modern Android (termux)
> *Termux.* It's a statically compiled source from the Alpine distro.

Unison file synchronizer for old Android (entware-ng)
> *Patched elf binary, Bash.* It's ported unison binary and dependencies from Ubuntu-ARM.

Yandex map route converter
> *PHP.* It saves routes built on the map as a GPX file.

Xubuntu on Android
> *Bash.* It launches the Xubuntu desktop on an Android phone.

Home NAS
> *PHP, Tigervnc, bash, ssh.* QNAP transformed to the latest Ubuntu and heavily customized. It's become my private cloud.