Evgeniy Petrov

Contact information

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Summary

I am a developer with 3 years of experience in developing, testing, deploying and supporting applications in Python and Java.

Currently interested in a position that combines development and operations.

Objective

I want to work in a position that would allow me to improve overall quality of the system through learning new skills and technologies.

Areas of expertise

Software development:

Requirements negotiation, design, development.

Quality assurance:

Unit/Integration testing.

System administration:

Monitoring, configuration management, application deployment, troubleshooting.

Skills

Python:

I have experience in writing Python scripts and converting scripts written in other languages to Python. I have written several daemons in Python (for example see Zabby below). I have familiarized myself with cpython implementation and I'm able to answer questions on Python behavior by digging through cpython source code.

Java, JVM, JVM based languages:

I have written and deployed applications in production environment. I have read books on JVM internals and popular JVM based languages (Clojure, Scala). I am using Clojure as a scripting language when solving toy problems to familiarize myself with Lisp and functional programming paradigm.

Linux:

I am using Debian/Linux as desktop operating system. I have experience creating and maintaining deb packages. I have spent some time digging trough strace output. I am familiar with system calls(through man pages) and some kernel internals (I wanted to know how CPU accounting works so I've read Linux Kernel Development by Robert Love, and studied relevant source code).

System administration:

I have administrated a group of production servers with keepalived failover. I have written Puppet node configuration for aforementioned group of servers. I have experience with on-call duty. I have some experience with segfault debugging.

Relational databases:

I have experience with PostgreSQL. Once I've took vertical scaling one step too far and used PostgreSQL as in-memory database(there was a need for complex queries, data was recoverable and query speed was the main issue). I have some experience with query optimization.

Professional experience

2011 - 2014 "I-Free", ltd, Saint-Petersburg:

I was working as DevOps at the department of monitoring. I was responsible for development, deployment and support of monitoring applications that work with Zabbix monitoring system.

1. I've been responsible for migration from Nagios to Zabbix

2. I've initiated and carried out migration of all monitoring scripts from bash/awk/perl/php/ruby to Python

3. I've initiated migration of monitoring web applications to Python, and new ones are since written in Python

4. I've written alternative implementation of Zabbix agent in Python and replaced Zabbix agent in production with it (see Zabby below)

Open source projects

Zabby :

Zabby is a monitoring agent intended as a drop in replacement for Zabbix agent.

Writing Zabby have immensly increased my knowledge of Python, unit testing, UNIX daemons, linux proc filesystem, large scale production deployments (deploying to several hundred servers) and backwards compatibility.

Language skills

Russian:

native language.

English:

I am comfortable with reading and writing English, although I don't have much experience speaking it. Here is a talk I gave at Zabbix Conference 2013, I think it accurately demonstrates my English talking skills.