Sergey Vilgelm

Senior Software Engineer

Over 12 years of software development experience with expertise in OpenStack core components, Python, Golang. Ability to learn new technologies, out of box thinking, ability to manage projects, ability to work within tight deadlines, self-motivated, good team player.

Current location: Austin, TX, USA

Ready for relocation to: Europe; Vancouver, BC, Canada

Work Experience

IBM

Oct 2019 - present Software Developer

• Tech lead of a micro-service projects

- Implementing a micro-service using flask+flask-restplus in a tight deadline.
 Implementing a rules engine using JsonLogic.
 Code review, tracking tasks/user stories.
 Coordination with the integration and UI teams.
- Implementing a micro-service using GO, gorilla/mux, Echo

Technologies: Python, Kubernetes, Docker, Rest API (flask + flask-restplus), Golang

Mirantis

May 2013 - Aug 2019 Software Engineer/Senior Software Engineer

IAM

Implementing a system to provide a central point of users and permissions management for Kubernetes and OpenStack. Written in Go lang, It uses Keycloak as an OpenID provider and makes it possible to integrate OpenStack and Kubernetes with Keycloak. Using Docker to deploy the IAM API server in a Kubernetes cluster.

Core developer at Patrole

Patrole is a set of integration tests to be run against a live OpenStack cluster. It has a battery of tests dedicated to validating the correctness and integrity of the cloud's RBAC implementation.

(https://github.com/openstack/patrole)

OpenStack monitoring tool using RabbitMQ

A monitoring tool for OpenStack uses notification channels to analyze the messages and keep a history of object changes.

Keystone-migration

A migration tool for keystone objects from one cloud to another using api v3 (https://github.com/SVilgelm/keystone-migration)

Glance-replicator

Glance-replicator for independent Keystone with api v3

Cloudferry

OpenStack cloud workload migration tool. (https://github.com/Mirantis/CloudFerry)

• Neutron expert

OpenStack consultant in Neutron's team at Ericsson. Consulting the team members, making presentations, fixing the bugs in a code.

• Contractor at Symantec

Fixing the bugs, improving a performance of the pl/pgsql scripts.

Vyatta Niblick

Developing a Quantum plugin together with a mechanism for deploying and configuring Vyatta VMs on demand.

• Migration Volume in Cinder

Implementing capabilities to migrate volumes between nodes.

Technologies: Python, OpenStack components, Postgresql, Kubernetes, Docker

Reggi Business

Feb 2012 - Mar 2013 Software developer

Enhancement of the system for domains registrar. Rewriting many modules from PHP to Python.

PowerDNS

Deploying the PowerDNS. Developing the manage system for a domain records on the Django and JsonRPC. Configuring database replicas to create child dns services.

Zabbix

Deploying and configuring Zabbix to monitor all Servers. Developing UserParameter scripts.

Technologies: Python, Django, PHP, PostgreSQL, JSON

Aspan Telecom

Sep 2010 - Feb 2012 Software developer

Development and maintenance of the billing system.

Accounting equipment

Developing a module of accounting equipment.

Technologies: FreeBSD, PostgreSQL, Python, Turbogears, CherryPy

Arna (BeTop, Ducat),

Dec 2008 - Sep 2010 Software developer

Billing system

Developing custom billing database, netflow collector.

• NetUP UTM 5 Billing System

Deploying and customizing UTM5 web cabinet.

Technologies: Delphi, DevExpress, UniDAC, PostgreSQL, Oracle, NetFlow5, PHP

Electronic Archive Corp

Sep 2007 - Oct 2008 Software developer

Saperion

Deploying and configuring the Saperion to customers.

Knowledge base

Developing a knowledge base system management based on Drupal.

Technologies: VisualBasic, Delphi, PHP, Drupal

Skif Trade

Jan 2005 - Aug 2007

IT-technician, Software developer

Application for the cash registers

Developing software components for the cash registers.

• IT-infrastructure

Deploying IT-infrastructure within 3 supermarkets.

Technologies: Delphi, MSSQL

Academic Records

Almaty University of Power Engineering and Telecommunications, Kazakhstan.

Sep'1999 – Jun'2011

Electronic systems and technologies, Degree in Engineering.

Certifications

MongoDB

• M001: MongoDB Basics

Nov 2019

M201: MongoDB Performance

Nov 2019

M103: Basic Cluster Administration

Mar 2020

Executive Data Science

Data Science in Real Life

Feb 2018

Coursera, Johns Hopkins University

https://www.coursera.org/account/accomplishments/verify/4SWSR94H3C3Z

Managing Data Analysis

Feb 2018

Coursera, Johns Hopkins University

https://www.coursera.org/account/accomplishments/verify/7Q2SS3P3MRMS

Building a Data Science Team

Feb 2018

Coursera, Johns Hopkins University

https://www.coursera.org/account/accomplishments/verify/Q5AVYQ8NS4BN

A Crash Course in Data Science

Feb 2018

Coursera, Johns Hopkins University

https://www.coursera.org/account/accomplishments/verify/V29Z294N7JGP

Getting Started with Google Kubernetes Engine

Dec 2019

Google Cloud Training

https://www.coursera.org/account/accomplishments/verify/ZE5CLY8C7MZ9

Algorithmic Toolbox

Mar 2017

University of California, San Diego & Higher School of Economics

https://www.coursera.org/account/accomplishments/verify/UDMF7Z3VLL8K

Computer Science 101

Jan 2015

Stanford Online

https://verify.class.stanford.edu/SOA/0211fc8379584949873e7f3ddd9cf2f1/