+1 (669) 292 7940
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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: Switzerland; Austria; Vancouver, BC, Canada

Work Experience

IBM
Oct 2019 - present
Software Developer

- **Tech lead of a micro-service project**
  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.

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

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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)

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- **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

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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

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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

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