Sergey Vilgelm

Senior Software Engineer

Over 15 years of software development experience with expertise in Python, Golang, Kubernetes, Docker, Rest API, AWS.

Ability to learn new technologies, out of box thinking, ability to manage projects, ability to work within tight deadlines, self-motivated, good team player.

Location: Seattle, WA

Looking for: remote in US || hybrid in Seattle/Bellevue, WA || relocation to EU

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GitHub: https://github.com/SVilgelm

Website: https://vilgelm.com

LinkedIn: https://www.linkedin.com/in/svilgelm/

Pet projects: https://github.com/sv-tools

Professional Experience

Styra

May 2021 - May 2023 Senior Software Engineer

Lead of the Data Sources project.

Adding new data sources, supporting the existing data sources and optimizing the memory consumption and performance. Adopting the datasources code to Load project (Enterprise OPA).

Processing the data in different formats, like json, xml, yaml, LDAP/AD on the server side using different approaches to transform or modify the data in place, avoiding unneeded unmarshaling/decoding, to save the memory and CPU resources. Optimizing the service for high performance and faster processing of incoming data flow.

Lead of the e2e test framework.

Testing the different systems via http requests and running different versions of the micro-services in the Docker containers. Collecting the stats from the docker containers and the http requests. Preparing the tests reports, including the API coverage and Docker stats.

Implementing new features, reviewing the pull requests, supporting the existing code. Implementing Kubernetes charts to deploy the micro services in the AWS or Minikube for local development/testing.

Technologies: Golang, Kubernetes, Docker, Rest API (swagger), AWS, GCP, Azure, Git, OPA

IBM

Oct 2019 - May 2021 Software Developer

GraphQL Gateway

Leading the implementation of a common interface to request a data from different micro-services and databases (MongoDB, MySQL) using Nautilus Gateway. Leading the process of adding the graphql endpoints in other services.

Reporting Framework

Leading the implementation of the service to generate reports in different formats using GraphQL gateway for fetching and processing a data. Transforming the data using the Json Query syntax in the report templates. Optimizing the data processing for the large data flow and for high performance.

Pricing Rules Engine

Leading the implementation of the a rules engine service to adjust the order prices based on the predefined rules or rate cards using Json Logic. Optimizing the rules engine to process the high number of small request by implementing the rules execution login in Go. Using Redis to cache the results for the most frequent requests

Writing base code, reviewing pull requests, creating and tracking the tasks. Implementing Kubernetes charts to deploy the micro services in the IBM Hybrid Cloud or Minikube for local development/testing.

Technologies: Python, Golang, Kubernetes, Docker, Rest API (swagger), GraphQL, gRPC, JsonLogic, Redis

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 for Ericsson Neutron's team. Mentoring the team members, making presentations, fixing the bugs in a code of the custom neutron plugin. Preparing the code base for upstreaming.

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 using 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 the billing system.

Accounting equipment

Developing a module of accounting equipment for a billing system.

Technologies: FreeBSD, PostgreSQL, Python, Turbogears, CherryPy

Arna (BeTop, Ducat)

Dec 2008 - Sep 2010 Software Developer

Billing system

Developing custom billing system, 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 using 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.

Certificates

Udemy

- Ultimate Rust Crash Course
- Ultimate Rust 2: Intermediate Concepts
- Clean Code
- gRPC[golang]
- Protocol Buffers
- Go Concurrency
- Go Testing
- <u>Swagger</u>

MongoDB

- M001: MongoDB Basics
- M201: MongoDB Performance
- M103: Basic Cluster Administration

Coursera

- A comprehensive approach to C# Fundamentals
- Google Project Management
 - Foundations of Project Management
- Executive Data Science
 - Data Science in Real Life
 - Managing Data Analysis
 - Building a Data Science Team
 - A Crash Course in Data Science
- Getting Started with Google Kubernetes Engine
- Algorithmic Toolbox

Stanford Online

• Computer Science 101

Austin Community College

• Cloud Native Application