

# Sergey Vilgelm

## Senior Software Engineer

*Over 13 years of software development experience with expertise in 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:** Seattle, WA, USA

**Remote only or hybrid in Redmond/Bellevue/Everett, WA area!**

## Work Experience

### Styra

May 2021 - May 2023

Senior Software Engineer

- Leading the Data Sources project, adding new data sources, supporting the existing data sources, optimizing the memory consumption and performance. Adopting the datasources code to Load project (Enterprise OPA).
- Leading e2e test framework.

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

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### IBM

Oct 2019 - May 2021

Software Developer

Tech lead of the micro-service projects:

- **GraphQL Gateway**  
a common interface to request data from different services
- **Reporting Framework**  
generating reports in different formats using GraphQL gateway to collect the data
- **Pricing Rules Engine**  
a common service to adjust the prices of the orders base on predefined rules or rate cards

Writing base code, reviewing pull requests, creating and tracking the tasks

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

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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>)
- **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

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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 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

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## 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

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## **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

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## **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

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## **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

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## **Academic Records**

Almaty University of Power Engineering and Telecommunications, Kazakhstan.

Sep'1999 – Jun'2011

Electronic systems and technologies, Degree in Engineering.

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## Certificates

### Udemy

- [Clean Code](#)
- [gRPC\[golang\]](#)
- [Protocol Buffers](#)
- [Go Concurrency](#)
- [Go Testing](#)
- [Swagger](#)

### MongoDB

- [M001: MongoDB Basics](#)
- [M201: MongoDB Performance](#)
- [M103: Basic Cluster Administration](#)

### Coursera

- **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](#)