Ilya Biin

Senior Software Engineer

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Ilya has more than a decade's worth of experience working as a system architect, a Python/Golang developer, and DevOps.
He has implemented various AWS works (integration, price optimization, and high availability), automation setup, and orchestration.
Overall, Ilya is a professional developer with a good knowledge of APIs and security.
Russian developer residing in the Philippines.

SKILLS

Python

django   flask   asyncio

tornado   gevent   cython

cffi   pytests

Golang

gin   beego   cgo   pprof

gc   ginkgo   mockgen

Backend

golang   python   c/c++

c10k problem   udp/tcp

docker   grpc

Databases

postgres   redis   aerospike

elasticsearch

WORK EXPERIENCE (6)

Software Engineer at Ferrum Health Inc.   **November 2018- Current**

Ferrum Health Inc. is an AI company focused on X-Rays pictures analysis. This position was opened to help them in building metrics/logging/analytics system.

- Designed and integrated metrics system [ElasticSearch|Kibana|Logbeats|Metricbeat|Heartbeat|Wazuh]
- On-premise datacenter deployment supported as well as managed by AWS [ElasticSearch|Docker|AWS]
- Integrated metrics framework client to gRPC server [Golang|Python|gRPC]

Software Developer at Coins.ph   **December 2017- October 2018**

Coins.ph is a digital wallet that Filipinos can use to make payments or buy digital currency such as Bitcoin, Bitcoin Cash, and Ethereum. As a Software Developer, I was a part of the infrastructure team.

- Implemented a decorator to make any django view asynchronous [Python|Django|Celery]
- Designed and implemented Jira/Github/CI/Deployment integration service [Python|Go|SQS|SNS]
- Alphapoint exchange integrated, providing the customers with an inexpensive way to exchange fiat and crypto-currencies [Python|Django|Tornado]
- Golang micro-service template designed [Golang|Beego|Mockgen|Ginkgo]
- Integrated Prometheus monitoring to Kubernetes cluster and the apps running in it [Prometheus|Kuberbetes|Python|Go]
- Redis cluster autoscaling for Kubernetes [Redis|Kubernetes]

Software Engineer at Gett.com   **February 2017- December 2017**

Gett is a taxi app, like Uber, that's most popular in Russia and Israel. As a part of a Billing Team, I was responsible for delivering internal accounting service for drivers and passengers.

- Prepared the team to pass an internal qualification test based on Go [Golang]
- Crafted the architecture of the driver earnings service (DES) with an embedded conflict resolution system [Golang|PostgreSQL]
- Developed an API for the business intelligence in the driver earnings service (DES) [Golang|PostgreSQL]
- Profiled and resolved the major performance issue in the DES production [Golang|PostgreSQL]

System Architect at Emerging Travel Inc. (ETI)   **February 2015- October 2016**

Active engagement in the development of middle and long-term tech strategy. Maintaining high availability of a project. Research and development of scalable project architecture. Splitting monolith code blocks into individual services. Providing developer teams with convenient tools and services for every-day tasks. Resolving technical questions with partners.

- Designed and led the development of third-parties integrations pipeline [Golang|Python|Protobuf]

- Designed and integrated micro-service architecture on top of Kubernetes [Golang|Python|AWS|API Gateway]
- Built the network balancing layer [AWS|TCP|API Gateway]

Software Engineer at Emerging Travel Inc. (ETI) **October 2011- February 2015**

Website search system speed and quality improvements.

- Designed and implemented dynamic pricing engine (based on marketing, supply, and customer properties) [Golang|Aerospike|Kafka]
- Designed and implemented business rules engine [Python|Django|Golang]
- Splitt monolith python code to Golang/Python microservices [Golang|Python|AWS|API Gateway]
- Created 1Tb/100,000rps caching layer, based on Aerospike cluster [Golang|Aerospike|Kafka]

Software Developer at Mail.Ru Group **February 2010- October 2011**

- ICQ (AOL) acceptance tests (when it was bought by the Mail.RU Group) [C/C++]
- Developed the ICQ-to-Mail.Ru Agent interservice communication (interop) [C++]

EDUCATION (2)

Bachelor of Science Computer Science at Colegio De Porta Vaga
2014 - 2018

Bachelor of Science Applied Mathematics at Moscow Institue of Physics and Technology (MIPT)
2005 - 2009

PUBLICATIONS

Rapid Web Development. Golang vs Ruby in Sphere Inc
28 October 2017

1,000,000 concurrent data streams in Avito Tech
28 October 2017

Golang strengths and weakness for startup in Yandex Tech talks
20 November 2013

Building a distributed cache system in PyCon Russia 2013
24 February 2013