

# Ilya Biin

## Senior Software Engineer

✉ [me@ilyabiin.com](mailto:me@ilyabiin.com) ☎ 1 (929) 376-3760

[in ilyabiin](#) [biinilya](#)



Ilya has more than a decade's worth of experience working as a system architect, a Go/Python 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.

### SKILLS

#### Python

django flask asyncio  
tornado gevent cython  
cffi pytest

#### 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|Kubernetes|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)**

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**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**

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**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**