

# Ilya Biin

## Senior Software Engineer

One Rockwell East Tower, 1210, Makati, Metro Manila PH

✉ [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 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

#### Backend

golang python c/c++  
c10k problem nat traversal  
tcp stream multiplexing

#### DevOps

ci/cd docker kubernetes  
aws ansible prometheus

#### 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.

- The system was designed. Stack used: ElasticSearch/Kibana/Logbeats/Metricbeat/Heartbeat/Wazuh
- On-premise datacenter environment deployment supported as well as replication to AWS-based ElasticSearch
- System setup, dependencies, and management documented
- Metrics Framework integrated into existing products

#### 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.

- Alphapoint exchange integrated, providing the customers with an inexpensive way to exchange fiat and crypto-currencies
- Golang micro-service template designed
- Postgres performance issues resolved
- Integrated Prometheus monitoring to Kubernetes cluster and the apps running in it
- Redis cluster autoscaling for 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
- Crafted the architecture of the driver earnings service (DES) with an embedded conflict resolution system
- Developed an API for the business intelligence in the driver earnings service (DES).
- Resolved the load issue in the DES production

#### 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.

- A pipeline of third-parties integrations
- Micro-service architecture on top of Kubernetes
- Network balancing layer

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

Website search system speed and quality improvements.

- Dynamic pricing engine (based on marketing, supply, and customer properties)
- Business rules engine
- Splitting monolith python code to Golang/Python microservices
- 1Tb/100,000rps caching layer, based on Aerospike cluster

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

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

## 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**