

# 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 Go/Python developer, and DevOps. He has implemented various AWS works (integration, price optimization, and high availability), automation setup, and orchestration. Ilya has a lot of experience in Travel and Finance industry, has been working independently in distributed teams, cares about business goals and is a fan of a startup culture.

### 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 Toptal **November 2018- Current**

As a Toptal engineer I was working for different clients (including Tesla, Workato and others), assisting in their challenges. Technologies: Golang, Python, Elasticsearch, Kibana, Logbeats, Metricbeat, Heartbeat, Wazuh, AWS, Docker, gRPC, Kubernetes

- Designed and integrated metrics system
- Added GPU support for golang TensorFlow library in kubernetes
- Moved functionality from NodeJS monolith to GoLang microservices
- Created a number of microservices from scratch

#### 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. Technologies: Python, Django, Celery, Golang, SQS, SNS, Tornado, Beego, Mockgen, Ginkgo, AWS, Kubernetes, Prometheus, Redis

- Implemented a decorator to make any django view asynchronous
- Designed and implemented Jira/Github/CI/Deployment integration service
- Alphapoint exchange integrated, providing the customers with an inexpensive way to exchange fiat and crypto-currencies
- Golang micro-service template designed
- 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. Technologies: Golang, Ruby, PostgreSQL, SQS, SNS, API Gateway

- 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)
- Profiled and resolved the major performance 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. Technologies: Golang, Python, Protobuf, AWS, TCP, API Gateway, Aerospike, Kafka

- Designed and led the development of third-parties integrations pipeline
- Designed and integrated micro-service architecture on top of Kubernetes
- Built the network balancing layer

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

Website search system speed and quality improvements. Technologies: Golang, Python, Protobuf, AWS, TCP, API Gateway, Aerospike, Kafka

- Designed and implemented dynamic pricing engine (based on marketing, supply, and customer properties)
- Designed and implemented business rules engine
- Split monolith python code to Golang/Python microservices
- Created 1Tb/1,000,000rps 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**