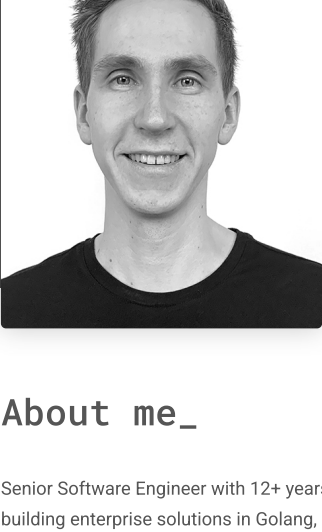




Gerasimchuk Mikhail

Senior Software Engineer • Golang, K8S, AWS • 12+ YOЕ

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About me_

Senior Software Engineer with 12+ years of commercial development experience. For the past 7+ years, I've been building enterprise solutions in Golang, following clean architecture practices. I deploy solutions to Kubernetes, build them with Docker, and package them into Helm charts. For delivery, I rely on CI/CD in GitLab and GitHub, and I ensure observability with Prometheus, Alertmanager, OpenTelemetry, Loki, and Grafana.

During my career, I've split PHP monoliths and rewritten them as Go microservices, built CI/CD from scratch, write pipelines with Docker, Helm, and Kubernetes, and migrated them from GitHub to GitLab. I created an application skeleton in Go to speed up development, and introduced and implemented logging, monitoring, alerting, tracing, and profiling practices. I also improved code review practices.

I've designed and built MVP solutions from scratch, handled loads of 15K RPS of external and 110K RPS of internal traffic, troubleshoot performance issues, delivered a large number of business features, and conducted countless code reviews. I've interviewed, onboarded, and mentored developers, and held team lead and tech lead roles. I've been part of both product and infrastructure teams at companies ranging from 10 to 300 employees.

For the past few years, I've been working on my own project in my spare time - [teamcoding.ru](#).

The repositories below show some of my skills:

- [github.com/mgerasimchuk/space-trouble](#) (business app)

- [github.com/mgerasimchuk/protty](#) (cloud native app)

Skills_

GENERAL

Agentic Development

Advanced usage of AI coding assistants (ChatGPT, GitHub Copilot, Cursor, Claude Code) and related tooling(Code-Graph-RAG, agents, skills). Rapid prototyping. Tests, API stubs and documentation generation. Applying AI tools to accelerate development workflows, including automated code review agents. Spec-Driven Development (with OpenSpec)

Golang

golang-standards/project-layout, The Clean Architecture. go app for k8s, goroutines, channels, generics, sync, grpc, protobuf, sarama, graceful shutdown, gowrap(custom templates), chi, gin, fiber, fasthttp, lo, zap, logrus, otel, envconfig, golanci-lint, gofakeit, etc.

K8S

DigitalOcean k8s(+DO LoadBalancer and persistent volumes), GKE k8s, AWS k8s, self-hosted k8s cloud, Rancher k8s, kubect!, helm charts, autoscaling, ingress controllers (traefik, ingress-nginx, voyager, multiple ingress-nginx controllers in the cluster), network policy (namespace isolation), NodePorts, SSL installation / cert-manager, Linkerd, istio, k8s HTTP API, troubleshooting, traffic sniffing by ksniff, tcp-dump and Wireshark

DevOps, Tooling, SRE

Bare metal: Supermicro, IPMI, Proxmox, Kubernetes(terraform, bpg/proxmox, siderolabs/taalos)
Cloud platforms (AWS, GCP, Digital Ocean, Hetzner): Configuring Kubernetes(self-hosted and as a service), Load balancing, virtual network, S3, CDN, configuring LAMP/LEMP stack on VPS. Configuring and interacting with AWS services - CloudWatch/OpenSearch/EKS/ECR/XRay/SNS/MSK/Bedrock/etc

Monitoring: Prometheus, SLI/SLO metrics/budgets/alerts, Alertmanager API, Grafana dashboards creating and delivering through the CI/CD with Grafana API / helm charts, Prometheus push-gateway configuration, Prometheus record rules, product and infrastructure alerts, Alertmanager receivers customization, Continuous profiling on the Grafana/Alloy/Pyroscope/pprof stack

Helm: Creating templates for business apps, Grafana dashboards, Prometheus rules/alerts, infrastructure apps
Terraform: Using 3rd party providers for describing infrastructure as a code

GitLab, GitHub: Creating pipelines and workflows from scratch for testing(unit+integration), linting, building business applications and delivering to the production through the dev and stage environments. Creating and configuring self-hosted gitlab shell runners. Creating custom integrations(review reminder bots, developers mention mechanisms, metric exporters to the ES and Grafana) with the GitLab API

Testing (Unit, Integration, Stress, Acceptance)

Unit: TDD, BDD testing, PHPUnit(MockBuilder, ReflectionClass, Coverage), Codeception frameworks. Fixtures and Faker extensions to generate mock data, Golang test(gomock, gounit, faker, HTTP recorders)

Integration: docker-compose based with infrastructure/svc mocks by Wiremock(for HTTP APIs), Gripmock(for gRPC API), Localstack(for AWS)

Stress: k6, Tsung, Yandex tank, JMeter, BlazeMeter, recording and reproduced users' sessions with Nginx access logs and Tsung sessions.

Acceptance and Smoke: Codeception, Selenium, Selenoid for UI testing(with session video recording)

OpenAPI/Swagger Specification

With the "API Design First" approach, using OpenAPI/Swagger Specification and Swagger-UI. Writing specification for GET, POST, PUT, PATCH, DELETE requests with definitions. Using specification to runtime requests validation. Using swagger interceptor to generate documentation based on existing API

PHP8, PHP7, PHP5.6, Yii 2, Kohana 3, Slim, Sillex, Cilex

JRPC/REST API, PHPUnit, Threads, pcntl, XDebug, XDebug profiling.

Yii2: Advanced template, Миграции, Active Record, table input, widgets, routing, RBAC.

Kohana3: ORM, mmp migrations, Smarty, Minions Task.

Mongo DB

Indexes, optimizations with explain, aggregation framework.

Certifications:

MongoDB Basics

MongoDB for Developers

MongoDB Aggregation Framework

MongoDB Basic Cluster Administration

MongoDB Diagnostics and Debugging

SQL, PL/SQL

Index usage, complex queries, virtual tables, views, stored procedure, triggers. MySQL, PostgreSQL.

ALSO USE

Terraform	Helm	Ansible	AWS EKS/ECR/XRay/SNS/MSK	GitLab CI, pipelines/runners
MongoDB	Elasticsearch	Neo4j	Docker	RabbitMQ
Composer	Gulp	Smarty	Twig	Kohana 3 framework
Sillex Framework	Cilex CLI framework	Symfony/Console CLI	XDebug	PHPUnit
Remote Debug	Tsung	Yandex Tank		
Swagger/OpenAPI	Docopt			
ebay API	Aramex, DHL API	Google Maps API	Telegram API	Slack API
GitLab API	Microsoft Graph API	Grafana API		
YouTube, Vimeo API	@mailgun, SendGrid	AWS S3	Backendless	SOAP
XML, XSL				
macOS	Ubuntu	PlantUML	dbForge	Trello
Jira	Confluence	Sentry	Lens IDE	PhpStorm IDE
Goland IDE	Slack	GitHub		
GitLab				

Roles: Lead Golang Developer, Tech Lead

Technologies: GoLang, gRPC, protobuf, WebSockets, REST, Prometheus, Prometheus Alertmanager, Docker, K8S, MongoDB, Elasticsearch(AWS OpenSearch), Kafka, Redis, BlazeMeter, JMeter, Grafana, Kibana, GitLab, Microservices, AWS(X-Ray, CloudWatch, VPC, MSK, EKS, Bedrock), Hyperledger.

SENIOR GOLANG SOFTWARE ENGINEER

Pushwoosh • Full-time

Washington D.C., United States • Remote

11.2018 - 11.2021 (3 years)

Developing microservices for pushwoosh.com in Go following clean architecture practices, configuring them with Consul, instrumenting them with Prometheus metrics, packaging them in Docker, and deploying, monitoring, and scaling them in K8S. Worked on new product development at the company, making key decisions related to the Facebook Messaging technology integrated into the new Abandoned Cart Recovery product. Developed and maintained platform solutions designed to handle 15K RPS of external traffic and 110K RPS within the cluster.

- Developed the Event Public API - a key client-facing capability, and covered it with unit and acceptance tests following TDD
- Built the MVP of a new "Abandoned Cart" product with Facebook Messenger API integration and took it to production, opening it up to customers
- Introduced SLIs/SLOs, unified global metrics, an error-budget dashboard, and alerting, then raised the success rate of problematic public APIs from ~70% to 99.9%
- Initiated and implemented Kubernetes service autoscaling driven by external Prometheus metrics, including Kafka lag
- Created a service template following clean architecture practices and rewrote the service scaffolding tool, speeding up development of new microservices
- Built a Mongo Monitor Grafana dashboard and a dedicated metrics collection package to diagnose MongoDB instability

Roles: Middle Backend Engineer L1, Middle Backend Engineer L2, Middle Backend Engineer L3, Senior Backend Engineer L1
Teams: Strategy, Abandoned cart sub-product, Customer Data Platform sub-product, Core, Production, SRE

Technologies: GoLang, gRPC, protobuf, Prometheus, Consul, Docker, K8S, PHP7(+daemons in php), PostgreSQL, MongoDB, ClickHouse, Cassandra, Kafka, RabbitMQ, Redis, Tsung, Yandex tank, Grafana, Redash, Gitlab, Microservices, REST API.

PHP DEVELOPER

NGS Technologies (N1.RU) • Full-time

Novosibirsk, Russia • On-site

06.2017 - 11.2018 (1 year, 5 months)

Real Estate Project Group N1.RU
API development, with ~500 RPS load, for vue.js webapp and for Android, iOS mobile applications.

- Refactored two key services, cutting the error rate across the API and background task processing by an average of 20%
- Raised unit test coverage of core functionality to 90%
- Built a test data and API mock generator, speeding up test development
- Introduced vfsStream for file system functions and reflection-based access to private methods into the team's PHPUnit testing practices
- Consistently ranked among the top 3 reviewers in peer code reviews, participating in 80% of reviews on average

Roles: Middle PHP developer

Teams: Desktop Web App API, Mobile Apps API

Technologies: PHP5.6, PHPUnit, MongoDB, Elastic Search, Redis, Swagger/OpenAPI, XDebug, RabbitMQ, Docker, Drone CI/CD, Foreman, Sillex Framework, Cilex CLI Framework, Sentry, Grafana, Jira, Tsung.

PHP DEVELOPER

VipParcel • Full-time

Krasnoyarsk, Russia • On-site

09.2016 - 05.2017 (8 months)

Work on VipParcel and ExpressFromUS projects. Modules development, integration with post services(Aramex, DHL), ebay integration etc.

Technologies: PHP5.6, jQuery, JS, HTML, CSS, Kohana 3 framework, twitter bootstrap framework, Smarty, mercurial(Bitbucket), composer, MySQL, phpStorm, Docker, RabbitMQ.

PHP DEVELOPER

YarCode • Full-time

Krasnoyarsk, Russia • On-site

09.2015 - 09.2016 (1 year)

Outsource development - CRM system, RESTfull API, ordering services, etc.

Technologies: PHP5.4, jQuery, JS, HTML, CSS, Yii2, framework, twitter bootstrap framework, swagger framework, codeception framework, git (Bitbucket, GitHub), composer, MySQL, dbForge, phpStorm, LEMP stack.

JAVA DESKTOP APPLICATION DEVELOPER

Communal Information Systems • Part-time

Krasnoyarsk, Russia • On-site

01.2015 - 06.2015 (5 months)

Support for the automation of business processes, companies providing energy.

Technologies: Java, SQL / Eclipse, Aqua data studio, iReport, SVN, CVS, Lotus / MS SQL Server.

C# DESKTOP APPLICATION DEVELOPER

Sitall-soft • Part-time

Krasnoyarsk, Russia • On-site

10.2012 - 01.2014 (1 year, 3 months)

Support of the business process automation system for the printing company CJSC Sitall.

Technologies: C#, Delphi, XML, SQL / MS Visual Studio, Delphi 7, SVN, SQL Navigator, Crystal Report / Oracle.

Education_

INFORMATICS AND COMPUTING MACHINES (MASTER'S DEGREE)

SIBFU The institute of space and information technology • Krasnoyarsk, Russia

09.2015 - 06.2017

After defending the diploma project "Laboratory complex, for development and control of practical skills of working with the command interface of operating systems" was awarded a master qualification and awarded a diploma with honors.

COMPUTING MACHINES, COMPLEXES, SYSTEMS AND NETWORKS (ENGINEER DEGREE)

SIBFU The institute of space and information technology • Krasnoyarsk, Russia

09.2010 - 06.2015

After defending the diploma project "Development of the command interface simulator for teaching and controlling students' knowledge of the subject Operating systems. Logic of the application server" was awarded an engineer qualification and awarded a diploma with honors.

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