Kirill Chernyavskiy

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1 About

System architect, programmer and researcher with 9+ years of experience. Strong background in software architecture, distributed/concurrent systems, decentralized systems, micro-services. Active open-source author and contributor, maintainer in open-source organizations.

1. GitHub: github.com/g4s8

2. LinkedIn: www.linkedin.com/in/kirill-che-8093071b8/

3. StackOverflow: stackoverflow.com/users/1723695

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6. Telegram: @kirill_g4s8

2 Skills

- **Strong:** Go, Java, distributed and concurrent systems, REST, HTTP, gRPC, PostgreSQL, ReactiveStreams, Git, AWS (S3, EC2, Route53, SQS), CI/CD, Docker.

- **Medium:** Kafka, Redis, MySQL, Kubernetes, Terraform, TLA^+, C#, CouchDB, MongoDB, etcd.

- **Basic:** JavaScript (NodeJS, React), C, Rust, Python, Solr, Lucene.

3 Experience

January 2020   Huawei (research laboratory) — **principal engineer and team lead in** Huawei Cloud.
Responsibilities: manage two teams; design system architecture; investigate and fix technical problems; suggest features and discussing requirements.
Achievements: 1) designed and implemented high-load micro-service cloud system for git repository replication with strong consistency model. 2) designed and implemented a toolkit (SDK) for software package (artifact) repository management, integrated into high-load cloud product.
Technical stack: Java, Go, Git, Paxos-commit, ReactiveStreams, Kafka, Redis, PostgreSQL, VertX, NIO, S3, etcd, HTTP, REST, gRPC.

January 2018   **Self-employed**. Worked as a freelancer, participated in remote projects, created new projects from scratch.
Responsibilities: find, hire and manage remote teams; designing architecture; discussing requirements; fixing technical issues.
Achievements: designed and implemented successful technical implementation for different startup projects; organized a remote team of freelancers;
Technical stack: Java, Go, Kubernetes, gRPC, S3, SQS, Blockchain, Hadoop, Nutch, Terraform, HTTP, PostgreSQL, OracleDB, JavaScript, React, Python, AWS-MTurk.

November 2015   Eventicious — **senior developer** in conference/events startup.
Responsibilities: implement new features in startup product; participate in architecture decisions.
Achievemtns: implemented cross-platform mobile prototype for requirements; implemented customized build system for creating branding mobile applications in one click.
Technical stack: C#, Xamarin, Java, Android, iOS, Azure.

January 2013	**Developer** in Mercury development — outsourcing company with US-based projects. **Responsibilities:** implement technical features; bug-fixing; **Achievements:** implemented Android-TV application for cloud presentations; created low-level SDK for BLE fitness-tracker; implemented food search features for health product; implemented features in distributed multi-media storage system. **Technical stack:** Java, Android, C, JNI, PostgreSQL, Solr, Lucene, BLE, NodeJS, Redis, MySQL.
June 2012	**Self-employed**, my first project. **Responsibilities:** discussing requirements with customer, implementing features, fixing bugs. **Achievements:** designed and implemented accounting application for book-store which was used more than 5 years. **Technical stack:** C#, MySQL, windows-forms.

4 Most valuable projects

This is the list of most valuable public (open source, not under NDA) projects I've participated in alphabetical order:

Artipie	(Maintainer) Software package management constructor and service. Provides components for building custom artifact manager, processes different artifact repository metadata formats (such as Maven, NPM, Docker, and many other), provides assembly as a self-hosted service, and deployed as a free invite-only public server for hosting artifacts from open-source projects. github.com/artipie.
GitLab/Gitaly	(Contributor) Git RPC service for handling all the git calls made by GitLab. gitlab.com/gitlab-org/gitaly.
DeGitX	(Maintainer) Public components for distributed git repository manager. github.com/cqfn/degitx.
Gitstrap	(Author) CLI helps to bootstrat GitHub repositories. User writes configuration files for this tool, and it creates ready to use repository on GitHub with initial documents, branch-protections, CI/CD, etc. github.com/g4s8/gitstrap.

OOT   (Author) A framework and Maven plugin for object-oriented testing. github.com/g4s8/oot/.

RIO   (Author) Java library for reactive input-output operations, initially was a part of Artipie project, the goal is to provide configurable and customizing IO providers for different resources. github.com/cqfn/rio.

Zerocracy   (Contributor) Automated project management GitHub bot to help organizing a software team, organizes a scope of work, assign the most relevant performer, estimate tasks, pay for result: github.com/zerocracy.