

# Shprenger Konstantin Aleksandrovich

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## About Myself

System level software engineer. Experienced in distributed system organization and multi-processor programming. I want my skills to be enhanced in that way for future perspective. Currently focusing on studying Byzantine Fault Tolerance. Considering the practical approach more valuable in the way it will provide more complex and interesting tasks.

## Education

ITMO University

- Faculty of Software Engineering and Computer Systems
- Bachelor's program: "System and applied software" (education period: 2021 - 2025)

Lyceum at the Tomsk Polytechnic University

- Education period: 2019 - 2021

## Work Experience

- YADRO SAN Software engineer (06.2024-Present)
  - SAN Cluster manager development
  - Control subsystem platform and infrastructure development

## Personal projects

- [RAFT Consensus protocol implementation](#) (Capstone)
- [Runtime for stackful fibers and lazy futures](#)
- [YDB Rust SDK Nearest data center balancer](#)
- [Projects focused on low-level programming](#)
- [Carolina - Hotstuff consensus](#) (WIP)

## Skills

- Experience with programming languages:
  - Rust, C/C++, Golang, Java, Kotlin, Assembly x86\_64/RISC-V
- Consensus protocols
- Lock-Free data structures
- Memory models
- Transactional memory
- Deep knowledge in systems: ETCD, PostgreSQL

## Achievements and volunteering

- Victory in the XIV regional tournament on mathematical battles, Tomsk region. (2021)
- Judging XV and XVI regional tournaments on mathematical battles, Tomsk region.
- Prize-winning place in the MIPT Olympiad (2021), Mathematics

## Additional

- English C1 Advanced level

## Contacts

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