

# Shprenger Konstantin Aleksandrovich

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## About Myself

System level software engineer. Experienced in distributed system and multi-processor programming. Currently focusing on studying Byzantine Fault Tolerance.

## 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 Control Path 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, Assembly x86\_64/RISC-V
- Consensus protocols
- Lock-Free data structures
- Memory models
- Transactional memory
- Deep knowledge in systems: ETCD, PostgreSQL, Cluster Labs Pacemaker

## 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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