

# Nikolai Golub

Software Developer

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## PROFILE

Developer with experience in large scale and high load projects. Fluent in Rust and Python, competent in Java and Golang. Achieve velocity by improving quality and following best practices: automated testing, code review, documentation. Aspired to become a principal engineer.

## EXPERIENCE

### Senior Protocol Engineer, ConsenSys; Amsterdam, Netherlands – 2021-Present

- Implemented a rollup, scaling solution for Ethereum blockchain, written in Rust from proof of concept to production ready services with PostgreSQL and Kafka as data storages and deployed on Kubernetes.
- Improved performance of the main flow of execution to 5k transactions per second. Reduced smart contract gas usage by approximately 30%.
- Designed contract based testing between Rust, Golang and Solidity codebases which simplified cases around zero knowledge proofs.
- Tuned metrics collecting and built Grafana dashboards for performance benchmarks analysis.

### Software Developer, Booking.com; Amsterdam, Netherlands – 2017-2021

- Built micro services for integration with tours & activities providers for scalable and high frequency import of new supply, with Java, MySQL, Kafka. Built alerting and monitoring.
- Built continuous delivery pipeline on Gitlab with Kubernetes, ElasticSearch and Python.
- Deployed highly available services with millions of users. Fire-fought, investigated and acted on “Reason for Outage” process.
- Won hackathon with visual editor for copywriters for Sketch, where I built backend part.

### Software Developer, Toptal; Saint-Petersburg, Russia; Remote – 2015-2017

- Designed and implemented from scratch a web portal for electric cars charging company using Python, Flask, PostgreSQL and Amazon Web Services.
- Developed automated billing, customer signup and payout logic.
- Achieved high velocity by having extensive automated testing and high coverage.

## EDUCATION

ITMO University, Saint Petersburg, Russia - Master's Degree in Information Technology, 2006 - 2012.

## SKILLS

**Languages:** Rust, Golang, Python, Java.

**Databases:** PostgreSQL, MySQL, Kafka, ElasticSearch.

**Infra:** Kubernetes, Amazon Web Services.

**Frameworks:** Tokio, Truffle Suite, Dropwizard, Flask.