

# Olekhov Vasilii Leonidovich

## Summary

C, C++ developer, mathematician, cryptographer and tech lead.

## Contact

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## Professional history

### Cryptographer, Quantitative Developer | 2025 - present, 1.5 years

NDA FinTech, Cyprus

- Implemented multi-sig protocol for custodial wallet, both as standalone service and as HSM module.
- Implemented models for price aggregation
- Developed GUI tools to visualize and tune model parameters
- Developed tools to assess model efficiency

### Mathematician with C++ | 2023 - 2025, 1.5 years

=nil; Foundation, Cyprus, <https://nil.foundation>

- Developed high-performance cryptographic library `crypto3`;
- Developed circuits for cryptographic primitives;
- Developed smart contract generation facilities for proof verification;
- Prepared cryptographic suite for external audit.

### Developer, Tech Lead | 2013 - 2023, 10 years

JSC Atlas-Kard, Moscow, Russia

- Developed various HSMs (hardware security module):
  - HSM for transactions between cash registers and FDO (Fiscal Data Operators) and Tax Office;
  - HSM for product marking, tachograph operations, electricity management;
- Developed Cryptographic service provider for Windows, CryptoAPI and CNG interfaces;
- Developed PKCS#11 API for cryptographic token (Windows, Linux);

## Education

Master's degree in Computer Science at Moscow State University, department of Mechanics and Mathematics.

## Skills

- C, C++, Git
- Cryptography, Zero Knowledge, Blockchain, Ethereum, Distributed systems
- Rust, Python, Javascript