

Vorobev Mikhail

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Education

2019 ↓ today	Moscow Institute of Physics and Technology - Phystech School of Applied Mathematics and Informatics - Engineering and Computer Science Bachelor's degree.
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Work and teaching experience

Feb. 2021 ↓ today	Tinkoff - Credit and brokerage systems - Junior specialist Backend Scala development: <ul style="list-style-type: none">• Maintenance and development of several in-house microservices.• Integration of message brokers: RabbitMQ and Kafka.• Integration of databases: MongoDB and PostgreSQL.• Implementation of several significant business features in online credit broker.
July 2021	Summer school «Slon» in Pushchino - Volunteer-tutor Courses taught: <ul style="list-style-type: none">• Formal languages.• Mathematical logic.

Courses

2021	MIPT - Concurrency course C++. Implementation of simple concurrency library: fibers, futures, thread pool.
2021	MIPT - Distributed systems C++. Implementation of distributed consensus and replication algorithms: paxos, multi paxos, raft.
2020	Tinkoff.Fintech - Scala development course Scala. Implementation of StopLoss-TakeProfit service integrated with tinkoff.investments.
2019 ↓ 2020 2017 ↓ 2019	Mail.ru - Introduction to production programming and data structures C, C++. Implementation of stack machine emulator and high-level language compiler for it.
	Air engineering school in Russia - Sounding rocket payload development C for AVR and STM32. Development of on-board firmware and peripheral drivers.

Projects

2020	gainy - Service with REST API Scala. StopLoss-TakeProfit service integrated with tinkoff.investments.
2019	PEGgen - Command line utility Python3. Generation of recursive descent parser from formal grammar.
2021	yaelc - Compiler of java-like language C++. Scanner (GNU Flex), LR-parser (GNU Bison), AST, type table.
2017 ↓ 2019	librsics - Peripheral drivers library for AVR C for AVR. Driver for Iridium9602 modem and testing of other modules.

Skills

Programming languages	Scala, C/C++, Python3
Technologies	MongoDB, PostgreSQL, RabbitMQ, Kafka
Frameworks and libraries	ZIO, cats, fs2, akka-http
Tools	git, sbt, Gitlab CI, liquibase
Languages	Русский(родной), English(intermediate)