

# NIKOLAY IGNATOV

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## EDUCATION

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### ITMO University

*Bachelor of Science in Applied Mathematics and Computer Science*

Saint-Petersburg, Russia

2020-2024

### Relevant courses

- **Programming** C++, Algorithms and Data Structures, Unix, Computer Architecture and Operating Systems, Functional Programming, Bioinformatics, Data analysis, Java advanced, Networks, Translation methods, Databases, Distributed programming, Parallel programming, Machine learning, Git
- **Math** Calculus, Linear Algebra, Graph Theory, Combinatorics, Mathematical Logic, Probability theory, Coding theory, Mathematical statistics

### Thesis

Development of automatic addition of employees to the registry when creating a payroll for the salary project of Bank "Saint-Petersburg"

## SKILLS

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### Programming Languages

Kotlin, Java, Typescript/Javascript, C++, Python

### Technologies and tools

Oracle, PostgreSQL, H2, Hibernate, Ktor, Koin, Exposed, Spring, Spark, Docker, Kafka, Junit5, Mockito, Selenide, Jest, React, Redux, Mui, Git, Gradle, Jenkins, OOP, SOLID, REST, Microservices, TDD, XP, MVC

## EXPERIENCE

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### Lipt Soft

Full-stack developer

Saint-Petersburg, Russia

Jul 2022 - present time

Software development and maintenance (Backend, Frontend, Automated QA) for Bank "Saint-Petersburg"

- **Salary project for corporate customers** Sep 2022 - Dec 2023
- **Fast payment system for corporate customers** Dec 2023 - Apr 2024
- **Progressive web application for private customers with adaptive layout** Apr 2024 - present time

## PROJECTS

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### Parser generator → Kotlin

- [LALR parser generator](#)
- Antlr-like grammar files with regular expressions and kotlin functions support
- Visualization of the parsed tree

### Messenger database → Sql, PostgreSQL 15.4

Designed database that can be used to create a messenger like mattermost

### Expression parser → Java

Implemented a parser for calculating arithmetic expressions by recursive descent with exception support

### Generating interface implementation → Java

Developed an application, that generates an implementation of an arbitrary interface using Java reflection