

Aigerim Assylkhanova

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EDUCATION

National Research University Higher School of Economics

Bachelor of Science in Applied Mathematics and Computer Science

Saint Petersburg, Russia

Sep 2020 – June 2024

Completed relevant courses

- Java, Functional Programming, C++, UNIX, Algorithms and Data Structures, Computer Architecture and Operating Systems, Automata Theory, Python
- Linear Algebra, Graph Theory, Mathematical Logic, Probability Theory and Mathematical Statistics

Current relevant courses

Machine learning, Databases, Kotlin, Software Engineering

EXPERIENCE

Google Intern || Java Backend, Fitbit Premium team

Warsaw, Poland

Jul-Oct 2022

- Collaborated with mobile engineers on preparing API
- Developed a new microservice for tracking user membership plans and comparing different plans
- Implemented new communications between Fitbit services
- Successfully deployed service to production

skills: Thrift, HTTP, Guice, Twitter Stack (Futures, Finagle, Finatra), SLF4J, JUnit, Mockito, Jenkins

PROJECTS

Version Control System || Java

Apr-June 2022

A simple version control system with commits, branches, staging area.

Interval analysis of code *Teamwork* || Python, Yacc, Lex

Oct 2021

- Created syntax for an abstract programming language
- Developed Syntax analysis of the code that builds an abstract syntax tree
- Implemented Interval analysis that detects overflows of variables by traversing the abstract syntax tree

Lambda-Calculator || Haskell

Dec 2021

A library that beta-reduce lambda terms and solve alpha-beta equivalence issues.

- Implemented an algorithm for substituting a term instead of a variable, an algorithm for checking alpha equivalence, an algorithm for multistep beta reduction to normal form
- Implemented lambda expression parser

!USO *Teamwork* || C++, SFML

Feb – Jun 2021

Musical rhythm arcade. The idea of game modes was taken from the OSU! game.

- Created game-mode in the style of Piano Tiles
- Created GUI of the application

ACHIEVEMENTS & ACTIVITIES

HSE Scholarship for international students

2020

Samsung IT-school mobile application development course

2019

SKILLS

Programming Languages: Java, Kotlin, C++, C, Python, Haskell, Bash, Assembly, SQL

Tools and technologies: HTTP, Thrift, Twitter Stack, NumPy, Pandas, SFML, Qt, Gradle, CMake, Docker, Git