Oleg Fafurin

Expert in Algorithms and Data structures with SWE and quantitative research experience finishing my Master in Computer Science at EPFL

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Experience

• Alpian Geneva

SWE intern — Java/Spring + React

Mar 2024 - Sept 2024

• Developed an LLM-powered text-to-SQL translation for an innovative banking service

• EPFL, Theory of Computation Laboratory

Lausanne

Research Assistant (part-time)

Sept 2022 - Aug 2023

o Conducted research in Linear optimization theory

 WorldQuant Quantitative Researcher (Full-time)

St. Petersburg Nov 2021 - Jun 2022

o Developed systematic trading algorithms to infer valuable market statistics and signals

JetBrains SWE Intern, Index Viewer project — Kotlin/Java, backend St. Petersburg

July 2021 - Aug 2021 o Implemented 3 new features for Index Viewer in 2 months, e.g. remote IDE index viewing (gRPC)

 Yandex SWE Intern, Content Recommendations team — Python St. Petersburg

Jan 2020 - June 2020

• Evaluated and analyzed a calibrated ranking approach to increase recommendations diversity

• Used in-house SQL dialect to retrieve statistics for better model design decisions

Skills

• Frameworks & Tools: gRPC, Spring Boot, React, Git, Docker, Kubernetes, SQL, Github Actions, ArgoCD, CLI

• Programming languages: Java, Kotlin, C++, Python

Education

• EPFL, IC Lausanne, Switzerland Master in Computer Science

Thesis: Graph sparsification and metric backbone

Sept 2022 - Ongoing

• ITMO University, Computer Technologies dept.

St. Petersburg, Russia Sept 2017 - June 2021

Bachelor of Computer Science,

Thesis: Streaming algorithm for a probabilistical decomposition of finite metrics into tree metrics

Got my A for Algorithms and Data Structures from ICPC world champion Gennady Korotkevich

Projects

• Community detection (Julia)

Analyzed, implemented and evaluated modularity-based community detection algorithms

• Tic-Tac-Toe (Haskell)

A console PVC Tic-Tac-Toe game in Haskell as part of the Functional Programming course

Aztec Diamond (C++)

Research project in probabilistic combinatorics exploring the features of randomly distributed structured object

Prizes, Awards, Scholarships

- Huawei, Wartsila student research scholarships (top-5%) 2020-2021
- International Experimental Physics Olympiad Bronze Medal in 2015
- Russian Mathematical Olympiad Final stage Prize in 2015, 2016 (top-0.1% on a national level)
- Russian Physics Olympiad Final stage Prize in 2015

Extracurricular Activities

• LauzHack, Wartsila, BSA Sui student hackathons at EPFL and ITMO

2020-2024

• Sports: Mountain and road cycling, hiking, entry-level voleyball and bouldering for leisure