ALEXANDER KOVRIGIN

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EDUCATION

Constructor University   Sept. 2022 - Expected Aug. 2024
Bachelor of Computer Science   *Bremen, Germany*

Transferred from:

Higher School of Economics   Sept. 2021 - Aug. 2022
Bachelor of Applied Mathematics and Computer Science   *St. Petersburg, Russia*

EXPERIENCE

JetBrains Research   Nov. 2023 - Present
ML Research Intern   *Remote*
NLP   Research

- Working on the **Code Editing task** for large repositories
- Leveraging language model techniques for processing vast code bases

Constructor University   Sep. 2023 - Dec. 2023
Teaching Assistant   *Bremen, Germany*
Mathematics

- Held **weekly seminars for the Analysis course**
- Came up with challenging problems for practice
- Engaged with students about mathematical concepts

Huawei Munich Research Center   June 2023 - Aug. 2023
Intern   *Darmstadt, Germany*
C++   PyTorch

- Collaborated to enhance the efficiency of **a privacy-preserving machine learning framework**
- Leveraged CPU/GPU PyTorch backends to optimize performance
- **Achieved a twofold increase in the model execution speed**

PROJECTS

Learning to Discover Conservation Principles   Jan. 2023 - May 2023
Deep Learning   Research

- Collaborated on a **research project focused on finding conservation laws** under direct guidance of Andrey Ustyuzhanin (h-index 125)
- Applied **deep learning methods** to extract conservation principles from experimental data, aiming to improve system integration robustness and simplify equations
- Contributed to a future conference paper detailing our novel approach using deep learning techniques

Cavoke   Jan. 2022 - June 2022
C++   Qt   Docker   SQL

- Developed a **framework for creating and hosting turn-based board games**
- Devised integrated solutions for game development challenges: game state persistence, liaison between client and server, user authentication, multiplayer support, etc.

Wikirace   Dec. 2021
Python   Django   Heroku   Websockets

- Developed an **online single-/multiplayer game** about traversing links from one Wikipedia page to another
- Incorporated asynchronous websockets for seamless multiplayer gameplay

ACHIEVEMENTS

ICPC Northwestern Europe Regional Contest (NWERC) — ***Silver Medal***, *150 teams*   Nov. 2023
Algorithms   C++   Teamwork   *Delft, Netherlands*

International Mathematics Competition — ***First Prize***, *top 10%, 390 contestants*   Aug. 2023
Mathematics   Problem-solving   *Blagoevgrad, Bulgaria*

SKILLS

- **Programming languages**: C++, Python, Java, Kotlin, Typescript, Haskell
- **Technologies**: Terraform, Docker, LaTeX, SQL
- **Languages**: English (C1), German (C1), French (A2), Russian (Native)