SEMEN DOROVITSYN

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EDUCATION

Jacobs University of Bremen, Jan. 2023 – Aug. 2023
Bachelor of Computer Science

Academic University, Aug. 2020 – Jan 2023
Bachelor of Applied Mathematics and Physics

EXPERIENCE

Yandex.Mediaservices — DWH Developer | Python, Spark, SQL, ClickHouse Oct. 2022 - Feb. 2023
- Revamped and re-implemented a data cube containing information about Mediaservices subscribers, resulting in a significant reduction of the calculation time from 6 to 2 hours.
- Developed a new data mart that collects all payment-related information about subscriptions, achieving nearly complete alignment with financial statements (with only a 1% difference).
- Found and resolved issues in the code that broke the pipeline with an average frequency of twice per month. It decreased weekly sustain costs from 8 to 4 man-hours.

Huawei Russian Research Institute — Formal verification engineer | Ocaml, Dune, C July 2022 – Sep. 2022
- Researched an innovative technique for program verification that enables automatic verification of previously unverifiable code, resulting in a decreased manual effort.
- Implemented an Ocaml back-end to improve the generation of loop invariant to automatically verify some new types of C code.

Yandex.Technology — Data Analyst | Python, SQL, ClickHouse Nov. 2021 – June 2022.
- Researched the applicability of metrics for different search objects. Found two corner cases that distort a wide range of experiments.
- Categorized all product users into three cohorts based on usage scenarios and demonstrated a way to have a 3-4% increase in the key metric on one of the cohorts.

PROJECTS

Lambda Calculator — Haskell Oct. 2021 – Dec. 2021
- Designed a lambda expression calculator that supports all operations of lambda calculus (reduction, equivalence (alpha and beta) checker, substitutions, etc).
- Implemented parser which read and output lambda expressions.

GitHub commit checker — Python, Requests Jan. 2021 – Feb. 2021
- Created a mini app that collects all user's commits and pull requests from GitHub and verifies them for the required standard.

SKILLS

Languages	Python, SQL, ClickHouse, C++, OCaml, Haskell.
Developer Tools	Git, Docker, Dune, VSCode.
Skills	Calculus, Linear Algebra, Statistics, Mathematical Logic, Differential equations.

ACTIVITIES AND ACHIEVEMENTS

Bioinformatics Courses, *organised by Biocad* Sep. 2018 – Feb. 2019
United Interuniversity Mathematical Olympiad, *Second-grade diploma* May 2019