Timofei Podkorytov

2nd year Student BS's Computer Science

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Nationality: Russian. Birthday: 23.10.2004

Education

Constructor University Bremen *BS in Computer Science. Bremen Germany*   *Sept 2023 – May 2026*

- **Operating systems(100%)**: scheduling and synchronization problems in context of C and POSIX
- **Databases and web services(97%)**: SQL, relational algebra, ACID, query processing
- **Development in JVM(by jet brains)(93%)** Introduction to development in Kotlin language
- **Algorithms and data structures(100%)** sorting, graphs, hashing, time complexity, dynamic programming
- **Programming in C/C+(96%)** Object oriented programming, generics, basics of both languages
- **Other coursework:** software engineering, secure and dependable systems, computer networks, probability and random processes, Calculus and linear algebra 1&2, introduction to computer science, discrete mathematics

Specialized Scientistic and Educational Center *High school, Yekaterinburg, Russia*   *Sept 2020 – May 2023*

- 100% GPA, Straight A diploma
- **Coursework:** Mathematics(Calculus), Informatics(Python and C++, algorithms), physics

Coding experience/Projects

Website project. Databases and web services(95%)   *Fall 2024*

- Engineered a MySQL database and a website connected to it on a local server
- Worked in a group of 4 people
- Used git, SQL, CSS, HTML and PHP in order to implement the functionality during 10 assignments

Operating systems assignments(C/Linux/POSIX)   *Fall 2024*

- Solved problems about system calls on UNIX like systems using C in 11 assignments
- Used POSIX condition variables and locks in order to simulate a simple vending machine
- Used pipes and fork in a simple quiz game. Fetched data in a separate child process and transferred the receives json data into a C struct using a pipe
- Learned Semaphores and their use cases

Android German Vocabulary application   *December 2024-Now*

- Created an easy way to memorize new words tailored for German
- Used Kotlin, Rooms(SQL), view models, and architecture of android applications to manage a database with 4 entities and 3 relations
- Jetpack compose for UI and visuals in 8 screens

BMW causal machine learning hackathon *Nov 29 - Dec 1*

- Analyzed sensor data from a manufacturing facility from over 300 sensors
- Used python to build the model as well as to create the visual graphics used in a 5 minute presentation

Development in Java Virtual Machine(Kotlin) *Spring 2024*

- Learned asynchronous, functional and object oriented programming
- Extensive use of GitHub for classwork 3 obligatory and 5 optional assignments
- Fetched Wikipedia pages and traversing them in order to find the shortest path from one to the other
- Used open weather API in order to asynchronously fetch data about given cities

Volunteering experience

Peer mentor *College 3 Constructor University, Bremen, Germany* *August 2024 – Present*

- Helped first year student to become part of the university
- Supported a group of over 10 new student throughout their first year of studies

Vice president of crochet club on campus *Constructor University, Bremen, Germany* *February 2024 – Present*

- Organized 2 weekly meeting and special events
- Taught the basics to newcomers 1 time a week

Board member of Spectrum club Queer straight alliance; *Constructor University, Bremen, Germany* *October 2023 – Present*

- Facilitated events club and campus wide with up to 100 attendees
- Club finances, compiling and managing spending on 5 applications in fall

Languages

Russian: native

English: C2

German: A2

Technologies

Languages: C++, C, Kotlin, Makefiles, Python, SQL, HTML, CSS, PHP, Haskell

Technologies: Linux, git, VS code, Android Studio, Intellij IDEA Ultimate

Last updated: 5.2.2025