Timur Tazeev

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EDUCATION

Colby College **Graduating May 2028**

Major: Computer Science and Mathematics*, Presidential Scholar award*   *Waterville, ME*

Relevant Coursework: Software Engineering, Data Analysis and Visualisation, Algorithms and Data Structures, Programming Languages, Linear Algebra

EXPERIENCE

Colby College **Feb. 2025 – Present**

Teaching Assistant & Grader   *Waterville, ME*

- Graded assignments and provided academic support for students in Algorithms and Data Structures, Calculus and Linear Algebra courses through TA sessions and individual support meetings

VKontakte **Jun. 2023 – Jul. 2023**

Product Management Intern   *Moscow*

- Gathered software requirements and technical specifications for integration of a sleep cycle tracking app into the social media's ecosystem
- Collected user stories to develop acceptance criteria for a reward system serving over 50 million monthly users
- Created a detailed execution plan following key SDLC phases, outlining sprint structures and release targets based on Agile management principles

Russian Quantum Center | Lab of strongly correlated quantum systems **May 2022 – Jun. 2022**

Research Intern   *Moscow*

- Developed computational models of chaotic behavior of nonlinear dynamical systems through Runge-Kutta RK4 iterative methods
- Optimized computational efficiency of simulations to determine Lyapunov exponents and test system stability around equilibrium points using NumPy, SciPy and Pandas
- Employed Matplotlib and Seaborn to generate visualizations of chaotic attractors, creating Poincare maps and phase portraits of the system to identify key stability regions

PROJECTS

BMP Image Editor | C++

- Developed a bitmap image editing application, employing algorithmic optimizations and memory management to accelerate processing and efficiently apply complex image transformations
- Implemented a set of ready-to-use filters, including grayscale, Gaussian blur, sepia and Laplasian edge detector, optimizing them for large images
- Designed a filter framework that allows users to customize available filters and conveniently create new ones

SKILLS

*Languages***:** Python, C, C++, Java, JavaScript, SQL

Technologies/Tools: MySQL, SQLAlchemy, Flask, HTML, CSS, SciPy, NumPy, Git, Scrum

AWARDS

National Physics Olympiad Prize-Winner **Apr. 2022**

- Ranked #29 out of 300,000+ participants
- Qualified for the shortlist of National Physics Team and won a Silver medal in the International Experimental Physics Olympiad
- Received $5000 cash prize