VLADISLAV SHUBIN

Master student

Stockholm, Sweden

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PROFESSIONAL EXPERIENCE

"Kventin" school   **Petrozavodsk, Russia**
Teacher   *2021-2023*
- **Activities:** Conducting exams, creating homework and learning materials, developing testing systems for students, and giving lectures in computer science.

Online school "Start"   **Saint-Petersburg, Russia**
Teacher   *2018-2022*
- **Activities:** Checking tests, creating homework and learning materials, developing testing systems for students, and giving lectures explaining material.

Private Teacher   **Russia**
Teacher   *2017-2021*
- **Activities:** Private teaching on Operational Systems, Programming Languages, Algorithms, OOP, etc.

EDUCATION

Stockholm University / KTH Royal Institute of Technology   **Stockholm, Sweden**
Master in Mathematics   Sep 2023 – Present
- **Courses**: Linear Algebra and Learning from Data, Type theory, Algebraic Geometry, Advanced Real Analysis

Petrozavodsk University (PetrSU)   **Petrozavodsk, Russia**
Bachelor in Mathematics   Sep 2019 – Aug 2023
- **Honors**: 4.8 / 5.0 GPA
- **Courses**: Applicable Statistics, Actuarial Mathematics, Finance Mathematics, Random Processes
- **Thesis**: Bernstein polynomials and MacWilliams transforms
- **Activities**: I was giving popular lectures for students on various topics

PROJECTS

SFML Course
VECTOR++ School of Computer Science   May 2017 – Jun 2017
- Developed a website and materials about installation of SFML library for several IDEs.
- Provied support for students about the installation and creating first programs using SFML/C++.

Block chain App
Innopolis University   Sep 2018 – Sep 2018
- Created version of ERC721 protocol using Solidity.
- Implemented application that interacts with Etherium blockchain network using Python.

PUBLICATIONS

1. Vladislav Shubin. "Investigation of φ-radical numbers". In: 73rd Scientific Conference of Sudents and Young Scientist. Petrozavodsk, Russia, 2021.

2. Vladislav Shubin and Nikita Gogin. "Bernstein Polynomials and MacWilliams transform". In: International Conference Polynomial Computer Algebra '2023' (PCA'2023). Saint-Petersburg, Russia, 2023.

3. Vladislav Shubin and Nikita Gogin. "Binomial Coefficients as Functions of their Denominator; Another Primality Criteria for Natural Integers". In: International Conference Polynomial Computer Algebra '2024' (PCA'2024). Saint-Petersburg, Russia, 2024.

OEIS contributions

I authored the following OEIS sequences: A355045, A355059, A337775, A337776, and also contributed to A000108

SKILLS, LANGUAGES, INTERESTS

- **Languages**: English (B2 speaker), Russian (Native speaker), Swedish (Basic proficiency)
- **Soft Skills**: Public Speaking, Debating, Communication, Critical Thinking, Leadership, Persuasive Writing, Technical Writing
- **Programming**: C/C++, Python, Javascript, HTML/CSS, Typst, LaTeX, MATLAB/Octave, Wolfram Mathematica, SAGE, SQL, PostgreSQL
- **Tools**: Git, Nix

- **Web Development**: Node.js, Hugo
- **BI & Data Analytics**: Microsoft Excel, Jupyter Notebook, Numpy, Pandas