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Technical Coursework

- **Mathematics:** Applied Dynamical Systems, Topics in Abstract Algebra, Real Analysis, Statistical Inference, Linear Algebra, Applied Ordinary & Partial Differential Equations, Single & Multivariable Calculus, Advanced Classical Mechanics, Modern Physics (Stanford OHS)
- **Computer Science:** Fundamentals of Computer Systems, Blockchains and Cryptocurrencies, Accelerated Introduction to CS, AP CS A
- **Directed Reading Programs:** Graduate Linear Algebra and Functional Analysis. Official write-up: https://github.com/alizma/Spring2021_Functional_Analysis_Paper.

Professional Experience

Teaching Assistant — Brown University
Abstract Algebra (Math1530) Lead TA — *May 2021 – Aug 2021*

Provided weekly feedback on problem sets and held weekly office hours for a class of 30.

Everaise Academy — Virtual
Curriculum Developer and TA — *Jun 2020 – Present*

- Official Website: everaise.org
- Composed several handouts on topics ranging from number theory to combinatorics and graded homework for over 100 students in the advanced topics course.

Mathnasium — Scottsdale, AZ
High School Math Tutor — *Mar 2020 – Sep 2020*

Education

Brown University (In Progress) — Rhode Island, USA
Bs.C. in Applied Mathematics, Computer Science — *Sep 2020 – May 2024*
Advisor: Prof. Hongjie Dong

Brophy College Preparatory — Arizona, USA
High School Diploma with Distinction (Mathematics) — *Aug 2016 – May 2020*

Awards

USA Math Talent Seach Bronze (2018, 2020), Silver (2019) Winner — Top 40 Nationally

USA National Chemistry Olympiad Semi-Finalist — Top 1000 Nationally

Google Code Jam Round 2 Qualifier — Top 30,000 Internationally

USA Computing Olympiad Silver Winner — Top 5,000 Nationally

AP National Scholar + National Distinction — Top 1% Nationally

Personal Projects

Kibibyte: Text Editor in <1 KiB — Programming

Implemented in C with VT100 syntax highlighting, Vim-like scrolling, and edit history. Portable for all POSIX-compliant systems. See more: https://github.com/alizma/kilo_text_editor.

Skills

Programming GoLang, Solidity, C/C++, Python, LaTeX, Bash, Markdown
Tools Vim, Git, VSCode, NMap, Linux
Languages English, Russian, Spanish (Conversational, 5 on AP)