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TECHNICAL COURSEWORK

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

PROFESSIONAL EXPERIENCE

Teaching Assistant

Abstract Algebra (Math1530) Lead TA

Brown University

May 2021 – Aug 2021

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

Everaise Academy

Curriculum Developer and TA

Virtual

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

High School Math Tutor

Scottsdale, AZ

Mar 2020 – Sep 2020

EDUCATION

Brown University (In Progress)

Bs.C. in Applied Mathematics, Computer Science

Advisor: Prof. Hongjie Dong

Rhode Island, USA

Sep 2020 – May 2024

Brophy College Preparatory

High School Diploma with Distinction (Mathematics)

Arizona, USA

Aug 2016 – May 2020

AWARDS

USA Math Talent Search 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 Python, GoLang, Solidity, C/C++, \LaTeX , Bash, Markdown

Tools Git, Vim, NMap, Linux

Languages English, Russian, Spanish (Conversational, 5 on AP)