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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

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.

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

USA Computing Olympiad Silver Winner

Top 5,000 Nationally

AP National Scholar + National Distinction

Top 1% Nationally

Catholic Mathleague Absolute Winner 2019, 2020

No. 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)